



Carleton University

Presentation to the Committee on University Affairs

December, 1970



CARLETON UNIVERSITY

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ITEM 1

REVIEW OF CURRENT PROGRAMS



COORDINATION WITH OTHER PROVINCIALLY-ASSISTED UNIVERSITIES

GENERAL

Carleton's efforts to coordinate program offerings with other provincially assisted universities in the past year have included specific arrangements with the University of Ottawa, both formal and informal; and more general discussions and arrangements among departments at the province—wide level.

AT THE UNDERGRADUATE LEVEL

An agreement has been concluded with the University of Ottawa which has effect as of 1970 Fall Registration. It provides for undergraduate students, in the second or more senior year, and in a major or honours program, who wish to take courses at the other university. Each student is allowed one course during any regular university session. The permission of both the home and the host department is required to effect the exchange.

A number of Departments including English, Biology, Geology and Mathematics have been cooperating with their counterparts at the University of Ottawa in order to avoid needless duplication of undergraduate courses, especially at the fourth year honours level. As well our Civil Engineering Division provides a course for University of Ottawa students and the latter reciprocates by providing a course for Carleton students.

On the Province-wide level a number of Departments including, for example, German, Geography and most Science Departments have been meeting to allocate priorities and generally further cooperation.

AT THE GRADUATE LEVEL

An agreement affecting graduate students was also concluded with the University of Ottawa. It enables a graduate student at one university to follow, during any one university term, one course at the other university.

The visiting graduate student is admitted to the host university on acceptance by the Chairman of the host department, and he must obtain as well, approval of the Dean of Graduate Studies at his home university. The home university will accept the grade assigned by the host university.



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The Faculty of Engineering has made special efforts to cooperate with the University of Ottawa so as to encourage as much complementarity as possible. The departments of Spanish, Geography, Chemistry, Geology, Mathematics and Physics have all made extra efforts towards collaboration with the University of Ottawa through a real strengthening of informal relationships.

As well, the Faculty of Engineering has held important preliminary conversations with Queen's University concerning the establishment of an Institute for Studies in Telecommunications. Already informal exchanges of students, research projects and expertise have taken place and proven fruitful.

The Department of Sociology and Anthropology has had preliminary discussions with the Sociology Department at Queen's concerning the complementarity of their two graduate programs. It is hoped that in the near future graduate students from either institution will be participating in graduate seminars offered at the institution other than the one where they are registered for a degree.

Graduate programs generally are being designed with great concern for their relation to other programs both in the province and in the country as a whole. Specifically, the Departments of English, French, Psychology, Chemistry and Mathematics have brought special concern that their programs compliment those being offered and proposed in sister institutions.



GRADUATE ENROLMENT DATA

GENERAL

The detailed presentation of the graduate enrolment data is given in subsequent tables as follows:

CUA-70-A	Distribution of Graduate Students by Discipline Area and Citizenship
CUA-70-B	Distribution of New Registered Graduate Students by Discipline Area and Citizenship
CUA-70-C	Graduate Degrees Awarded or to be Awarded by Discipline Area.
CUA-70-D	Projected Graduate Enrolment by Discipline Area.
CUA-70-E	Survey of Annual Financial Resources

Students.

for the Support of Full Time Graduate



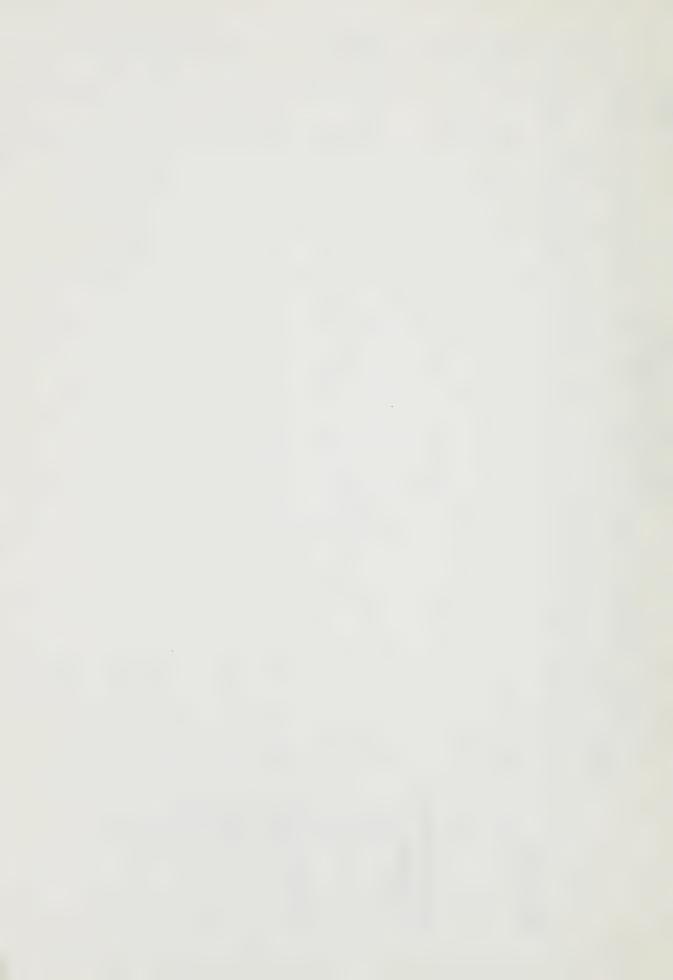
CUA-70-A Page 1 of 3

CARLETON UNIVERSITY

GRADUATE ENROLMENT DATA

DISTRIBUTION OF GRADUATE STUDENTS (FULL-TIME AND PART-TIME) BY DISCIPLINE AREA & CITIZENSHIP

		Canadian	DISTRIBUTION OF	Landed	Pa CP	ACCATE		STODENIS		(FULL-11ME	Н	AND FARI		_	CIO 10	DISCIPLINE		Sub-total	1	al TOTAL	CAL	
				Immi	Immigrant	United	ted	United	ped dom	Eur	Europe	Asia		Africa		Other	4.	Foreign	gu			,
		02/69	70/71	02/69	70/71	02/69	70/71 6	7 02/69	70/71	02/69	70/71	02/69	70/71 6	02/69	70/71 6	7 02/69	70/71	02/69	12/07	02/69	70/71	
AGGREGATE FIGURES	Si																					
Full-Time:	- Master's - Doctoral - Total	349	357 63 420	50 18 68	79 44 123	9 12	0 1 2	8 2 10	6 1 5	mom	404	32 22 57	25 6 31	9 4	111 3	2 - 7	77 9	68 32 100	54 13 67	467 110 577	490 120 610	
Part-Time: -	- Master's - Doctoral - Total	224 22 246	214 27 241	52 9 61	49	3 1 2	0 1 1	707	101	000	000	13	7 0 7	0 1 1	101	mom	202	20 3	0 1 7	296 34 330	269 34 303	
BREAKDOWN BY DISCIPLINE AREA	SCIPLINE AREA																					
HUMANITIES (Lang.	3. & Lit.)																					
Full-Time:	- Master's - Doctoral - Total	50	67	12 0 12	000	000	000	m 0 m	101	1 0 1	101	000	1 0 1	000	000	101	000	200	m 0 m	67	61 0	- 7
Part-Time:	- Master's - Doctoral - Total	29 0 29	34	808	15	000	000	000	000	101	000	000	000	000	000	H O H	000	707	000	39	67	7 -
HUMANITIES (History, etc.)	ory, etc.)																					
Full-Time:	- Master's - Doctoral - Total	15	17 0 17	000	000	000	000	000	000	000	000	000	000	000	000	000	000	101	000	16 0 16	17 0 17	
Part-Time:	- Master's - Doctoral - Total	16 0 16	11 0 11	2 0 2	101	000	000	1 0 1	000	000	000	000	000	000	000	000	000	101	000	19 0 19	12 0 12	
SOCIAL SCIENCES (General)	(General)																					
Full-Time:	- Master's - Doctoral - Total	188 24 212	179 28 207	17 6 23	23 13 36	8 2 10	4 1 2	2 - 6	m 0 m	101	mom	6 1 4	7 1 2	077	4 2 2	2 0 2	3 1 2	20 6	18 5 23	225 36 261	220 46 266	
Part-Time:	- Master's - Doctoral - Total	49	46	∞ ○ ∞	000	1 0 1	000	1 0 1	101	000	000	000	000	1 1 0	000	000	202	3 - 5	mom	59 2 61	58	



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CARLETON UNIVERSITY GRADUATE ENROLMENT DATA

CITIZENSHIP Ø AREA BY DISCIPLINE DISTRIBUTION OF GRADUATE STUDENTS (FULL-TIME AND PART-TIME)



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CARLETON UNIVERSITY

GRADUATE ENROLMENT DATA

DISTRIBUTION OF GRADUATE STUDENTS (FULL—TIME AND PART—TIME) BY DISCIPLINE AREA & CITIZENSHIP

	Canadian	dian	Landed	led						Foreign	ign						Sub-total	al	TOTAL	T
			Immi	Immigrant	United	pa	United Kingdom	8	Europe	w w	Asia		Africa		Other		Foreign	п		
	02/69	70/71	02/69	70/11	02/69	10/11	69/70 70/71		7 07/69	70/71	02/69	70/71	02/69	70/71 6	7 02/69	70/71	02/69	70/71	02/69	70/71
HEALTH SCIENCES																				
Full-Time: - Master's - Doctoral - Total																				
Part-Time; - Master's - Doctoral - Total																				
EDUCATION																				
Full-Time: - Master's - Doctoral - Total																				
Part-Time: - Master's - Doctoral - Total																				
BUSINESS																				
Full-Time: - Master's - Doctoral - Total	10	11 0	m 0 m	mom	000	000	000	000	000	000	m 0 m	7 0 7	101	100	101	1 0 1	202	909	18 0 18	20 0 20
Part-Time: - Master's - Doctoral - Total	56	61	200	4 0 4	000	000	000	000	000	000	000		000	101	1 0 1	000	1 0 1	1 0 1	62 0 62	99
OTHER																				
Full-Time: - Master's - Doctoral - Total																				
Part-Time: - Master's - Doctoral - Total																				
Notes: 1. Does not include "qualifying year" students (as this term is defined in the Report on the Counting of Graduate Student 2. Enrolment basis is Student numbers enrolled: "As at" December 19t of each year. 3. Enrolment reported for 1970-71 is the latest estimate available of 1970-71 actuals. An updated report incorporating December 1st actuals will be submitted by no later than January 1st, 1971. 4. Discipline areas are as defined in "Survey of Citizenship of Graduate Students Enrolled in Master's and Doctoral Degree Programmes at Ontario Universities in 1969-70 (C.P.U.O. Research Division, May 11, 1970).	lifying yeldent number 1970-71 prorating stationer.	ar" st ers en is the Decem in "S at Ont	udents rolled: latest ber lst urvey o	(as this "As at estimat actuals E Citize iversiti	term i t" Decente avail will b uship o	is definate list able of submit of Gradu 969-70	of each 1970-71 1970-71 tted by ate Stud	n year. 1 actua no late lents Er	rt on t ls. er than rolled	the Country Januar in Mas	nting of y lst, ter's ivision	Gradua 1971.	ite Stuc	Students).						



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CARLETON UNIVERSITY GRADUATE ENROLMENT DATA

DISTRIBITION OF NEW REGISTERED GRADUATE STUDENTS (FULL-TIME AND PART-TIME) BY DISCIPLINE AREA & CITIZENSHIP

		Canadian	Landed			Foreign				Sub-Total	TOTAL	
				United	United Kingdom	Europe	Asia	Africa	Other	Foreign		
AGGREGATE FIGURES	ES	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	
Full-time:	- Master's - Doctoral - Total	193 15 208	37 13 50	m o m	тот	707	14 2 16	88 811	m 0 m	35 5 40	265 33 298	
Part-time:	- Master's - Doctoral - Total	41 1 42	7 1 8	000	000	000	000	000	000	000	48	
BREAKDOWN BY DISCIPLINE AREA	ISCIPLINE AREA											
HUMANITIES (Lan	(Language & Literature)											
Full-time:	- Master's - Doctoral - Total	32 0 32	9	000	1 0 1	000	101	000	000	. 00 7	40 0 40	- 10
Part-time:	- Master's - Doctoral - Total	404	000	000	000	000	000	000	000	000	404	-
HUMANITIES (His	(History, etc.)											
Full-time:	- Master's - Doctoral - Total	15 0 15	000	000	000	000	000	000	000	000	15 0 5	
Part-time;	- Master's - Doctoral - Total	2 0 2	000	000	000	000		000	000	000	2 0 2	
SOCIAL SCIENCES	S (General)											
Full-time:	- Master's - Doctoral - Total	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	14 7 21	2 0 2	101	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 1 2	4 2 2	2 0 2	13 3 16	111 19 130	
Part-time:	- Master's - Doctoral - Total	& O &	0 1	000	000	000	000	000	000	0 0	606	
SOCIAL SCIENCES	S (Regional, etc.											
Full-time:	- Master's - Doctoral - Total	18 0 18	0 2 2 2	000	1 0 1	000	000	000	000	1001	21 0 21	
Part-time:	- Master's - Doctoral - Total	000	000	000	000	000	000	000	000	000	000	



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CARLETON UNIVERSITY GRADUATE ENROLMENT DATA

	Landed							Sub-Total	TOTAL
		United	United Kingdom	Europe	Asia	Africa	Other	Foreign	
12-0261	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71
	5 6 11	101	000	000	3 1 2	000	000	7 - 7	16 13 29
	101	000	000	000	000	000	000	000	. 10 11
	202	000	000	000	011	000		1 1 .	9 1 10
	m 0 m	000	000	000	000	000	000	000	m 0 m
14 1 15	986	000	000	000	. 0 9	1 2 2	000	11 1 12	31 5 36
	215	000	000	000		000	000	000	10 2 12
	101	000	000	000	000	000	000	000	6 4 10
	000	000	000	000	000	000	0.00	000	m 0 m

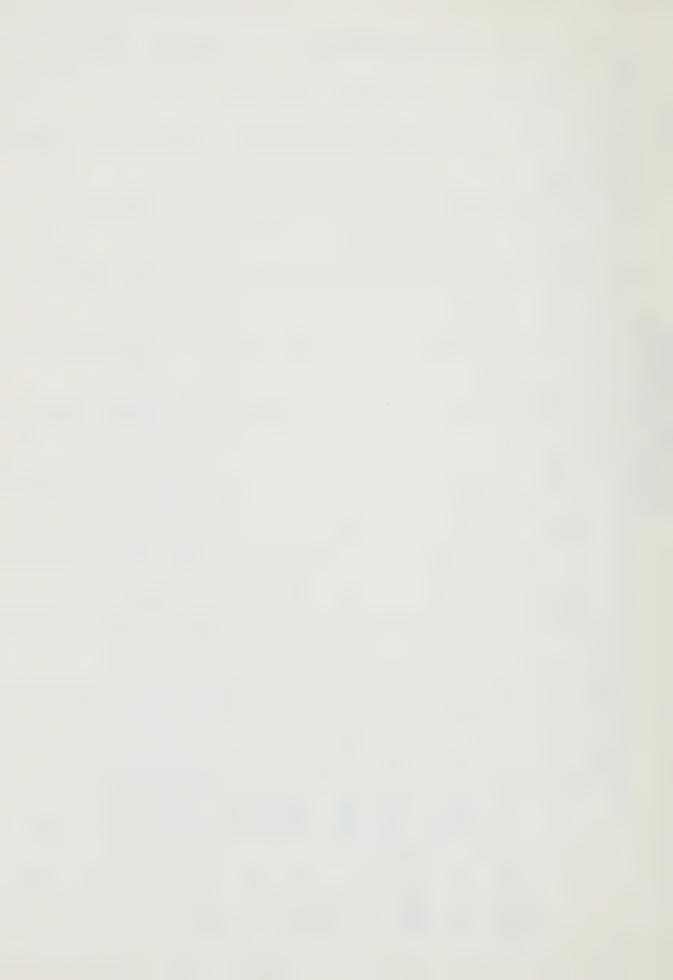
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CARLETON UNIVERSITY

GRADUATE ENROLMENT DATA

DISCIPLINE AREA & CITIZENSHIP

		Canadian	Landed							Sub-Total	TOTAL	
				United	United Kingdom	Europe	Asia	Africa	Other	Foreign		
		1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	
EDUCATION												
Full-time:	- Master's - Doctoral - Total											
Part-time:	- Master's - Doctoral - Total											
BUSINESS												
Full-time:	- Master's - Doctoral - Total	10 0 10	101	000	000	000	e 0 e	100.	1001		16 0 16	
Part-time:	- Master's - Doctoral - Total	16 0 16	000	000	000	000	000	000	000	000	16 0 16	12 -
OTHER												
Full-time:	- Master's - Doctoral - Total											
Part-time:	- Master's - Doctoral - Total											
Notes: (1)	Does not include "qualifying year" students	"qualifying	year" students	(as this term	is defined in	the Report on	the Counting	of Graduate Students).	tudents).			
(2)	Enrolment basis is Student numbers enrolled	is Student nu	mbers enrolled		"as at" December 1st of each year.	h year.						
(3)	Enrolment reported for 1970-71 is the latest estimate available of 1970-71 actuals. An updated report incorporating December 1st actuals will be submitted no later than	ed for 1970-7 t incorporati	is the lates	st estimate ava	dlable of 1970 be submitted	-71 actuals. no later than January 1st,		1971.				
(4)	Discipline areas are as defined in "Survey of Citizenship of Graduate Students Enrolled in Master's and Doctoral Degree Programmes at Ontario Universities in 1969-70" (C.P.U.O. Research Division,	are as defin ree Programme	ed in "Survey at Ontario U	of Citizenship Jaiversities in	of Graduate 8	tudents Enroll	led in Master's	May 11,	1970).			
(5)	"New registered" graduate students at those	graduate stu	dents at those	enrolled in	their program for the first		time for the Fall	111 Terms.				



CUA-70-C

			GRADUA	GRADUATE DEGREES		AWARDED/ TO BE		AWARDED BY DISCIPLINE	SCIPLINE	AREA		
	1965 Actual	1966 Actual	1967 Actual	1968 Actual	1969 Actual	1970 Estimated	1971 Estimated	1972 Estimated	1973 Estimated	1974 Estimated	1975 Estimated	1976 Estimated
ACCRECATE FIGURES												
Master's Doctoral	56	87 5	90	165	196 14	229	238	279	315 26	348	382	416
BREAKDOWN BY DISCIPLINE AREA												
HUMANITIES (Language & Literature)												
Master's Doctoral	90	7 0	10	21	26	35	36	52 0	. 59	68	76	78 4
HUMANITIES (History, etc.)												
Master's Doctoral	e 0	60	60	7 0	18							
SOCIAL SCIENCES (General)												
Master's Doctoral	11 0	. 19	20	74	76	133	137	153	173	190	207	224 16
SOCIAL SCIENCES (Regional,								2 12.				
Master's Doctoral	0	6	50	11 0	14							
PHYSICAL SCIENCES												
Master's Doctoral	6	. 11	 00	14	12 5	34;	33	37	41	45	49	53
MATHEMATICAL SCIENCES												
Master's Doctoral	0 0	0	4 0	4 1	9 0							
ENGINEERING												
Master's Doctoral	13	13	21 0	16	18	27	32	37	42	. 9	50	55
LIFE SCIENCES												
Master's Doctoral	1	1	2.2	6	20							
								-				



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CARLETON UNIVERSITY
GRADUATE ENROLMENT DATA
GRADUATE DEGREES AWARDED/TO BE AWARDED BY DISCIPLINE AREA

	- 14 -
1976 Estimsted	
1975 Estimated	
1974 Estimated	
1973 Estimated	1970).
1972 Estimated	ion, May 11
1971 Estimated	ed in Master search Divis
1970 Estimated	dents Enroll
1969 Actual	21 0 0 -70"
1968 Actual	2 0 0 ct ies in 196
1967 Actual	11 0 rvey of Citi
1966 Actual	18 0 fined in "Su
1965 Actual	10 0 0 gree Progra
	Discipline areas are as defined in "Survey of Cttlacembits of Graduate Students Encolled in Master's and Doctoral Degree Programmes at Outsrio Universities in 1969-70" (C.P.U.O. Refearch Division, May 11
	Master's Doctoral EDUCATION Master's Doctoral BUSINESS Master's Doctoral OTHER Master's Doctoral Doctoral



GRADUATE ENROLMENT DATA

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AREA	1975-76		855 246 1101	392 66 458			148 31 179	100 5 105								474 90 564	190 17 207
ED GRADUATE ENROLMENT (FULL-TIME AND PART-TIME) BY DISCIPLINE	1974-75		781 220 1001	370 59 429			133 24 157	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								434 81 515	179 15 194
	1973-74		70 6 194 900	344 51 395			117 18 135	78 0 78								394 72 466	168 13 181
	1972-73		634 168 802	317 44 361			104 12 116	76 0 76								354 63 417	154 10 164
	1971-72		559 143 702	292 39 331			90 5	89 0 89								311 54 365	143 8 151
PROJECTED	1970-71		490 120 610	268 34 302			78 78	61 0 61							7	275 46 321	131 6 137
		ACCREGATE FIGURES	Full-time: - Master's - Doctoral - Total	Part-time: - Master's - Doctoral - Total	BREAKDOWN BY DISCIPLINE AREA	HUMANITIES (Language & Literature)	Full-time: - Master's - Doctoral - Total	Part-time: - Master's - Doctoral - Total	HUMANITIES (History, etc.)	Full-time: - Master's - Doctoral - Total	Part-time: - Master's - Doctoral - Total	SOCIAL SCIENCES (General)	Full-time: - Master's - Doctoral - Total	Part-time: - Master's - Doctoral - Total	SOCIAL SCIENCES (Regional, etc.)	Full-time: - Master's - Doctoral - Total	Part-time: - Master's - Doctoral - Total



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CARLETON UNIVERSITY
GRADUATE ENROLMENT DATA
PROJECTED GRADUATE ENROLMENT (FULL—TIME AND PART—TIME) BY DISCIPLINE AREA

	PROJECTED	GRADUATE	ENROLMEN (FULL-TIME AND PARI-TIME) BY DISCIPLINE	ME AND PARITIE		ANEA
	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76
PHYSICAL SCIENCES						
Full-time: - Master's - Doctoral - Total						
Part-time: - Master's - Doctoral - Total						
MATHEMATICAL SCIENCES						
Full-time: - Master's - Doctoral - Total	68 50 118	78 56 134	85 62 147	95 69 164	103 76 179	111 82 193
Part-time: - Master's - Doctoral - Total	21 6 27	23 7 30	24 8 32	25 10 35	27 11 38	28 12 40
ENGINEERING						16
Full-time: - Master's - Doctoral - Total	69 24 93	80 28 108	91 31 122	100 35 135	111 39 150	122 43 165
Part-time: - Master's - Doctoral - Total	55 22 77	58 24 82	63 26 89	67 28 95	71 30 101	74 32 106
LIFE SCIENCES						
Full-time: - Master's - Doctoral - Total						
Part-time: - Master's - Doctoral - Total						
HEAL TH SCIENCES						
Full-time: - Master's - Doctoral - Total						
Part-time: - Master's - Doctoral - Total						



CUA-70-D Page 3 of 3

CARLETON UNIVERSITY GRADUATE ENROLMENT DATA

PROJECTED GRADUATE ENROLMENT (FULL-TIME AND PART-TIME) BY DISCIPLINE AREA

1975-76				
1974-75				Students).
1973-74				ter's 'Aay 11, 19
1972-73				Enrolment basis is Student numbers enrolled: "as at" December ist of each year. Enrolment reported for 1970-71 is the latest estimate available of 1970-71 actuals. Discipline areas are as defined in "Survey of Citizenship of Graduate Students Enrolled in Mas and Doctoral Degree Programmes at Ontario Universities in 1969-70" (C.P.U.A. Research Div DPA enrolment is NOT included. Social Work, Public Administration and Architecture are included in the Social Science Tables.
1971-72				ents (as this term is de lled: "as at" December alest estimate available by of Citizenship of Grio Universities in 1969-Architecture are include
1970-71				Does not include "qualifying year" students Enrolment basis is Student numbers enrolled: Enrolment reported for 1970-71 is the latest Discipline areas are as defined in "Survey o and Doctoral Degree Programmes at Ontario Un DPA enrolment is NOT included. Social Work, Public Administration and Archi
Philicarton	Full-time: - Master's - Doctoral - Total - Part-time: - Master's - Doctoral - Total - Total	Full-time: - Master's - Doctoral - Total - Doctoral - Doctoral - Doctoral - Total - Total	Full-time: - Master's - Doctoral - Total Part-time: - Master's - Doctoral - Total	Notes: 1. Does not include "qualifying y 2. Enrolment basis is Student num 3. Enrolment reported for 1970-71 4. Discipline areas are as define and Doctoral Degree Programmes 5. DPA enrolment is NOT included. 6. Social Work, Public Administra



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GRADUATE ENROLMENT DATA
RESOLINCES FOR THE SLIDDORT OF FULL - TIME

Not Supported under Any of Categories 1-7	(8)		55 50			∞ ○ ∞		2 0 2		38 41		7 0 7		000		000
P.O.S.A.P.	(7)		63 69			909		н 0 н		40 2 42		7 0 7				7 0 7
u	Other University (6)		50 5 55			10 0 10		m 0 m		10 0 10		11 0 11		000		000
Remuneration	Teaching Assistantships (5)		268 99 367			30		15 0 15		134 36 170		606		38 33 71		19 7 26
rants	Other (4)		25 10 35			1 0 1		000		12 7 19		9 0 9		7 7 9		000
Research Grants	Federal Agencies (3)		94 37 131			000		000		9 4 13		000		32 13 45		0 H H
larships and Bursaries	Other (2)		141 48 189			9 0 9		2 0 2		95		101		6 18 24		1233
Scholarships and Bursaries	P.0.G.		151 36 187			50		808		63 21 84		16 0 16		10 7 17		3 1 2
		S	- Master's - Doctoral - Total	CIPLINE AREA	(Language and Literature)	- Master's - Doctoral - Total	(History, etc.)	- Master's - Doctoral - Total	(General)	- Master's - Doctoral - Total	(Regional, etc.)	- Master's - Doctoral - Total	S)	- Master's - Doctoral - Total	ENCES	- Master's - Doctoral - Total
Discipline Area		AGGREGATE FIGURES	Full-time:	BREAKDOWN BY DISCIPLINE	HUMANITIES (Lang	Full-time:	HUMANITIES (Hist	Full-time:	SOCIAL SCIENCES	Full-time:	SOCIAL SCIENCES	Full-time:	PHYSICAL SCIENCES	Full-time:	MATHEMATICAL SCIENCES	Full-time:



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CARLETON UNIVERSITY
GRADUATE ENROLMENT DATA
SURVEY OF ANNUAL FINANCIAL RESOURCES FOR THE SUPPORT OF FULL-TIME GRADUATE STUDENTS, 1969-70 ACTUAL

ported my of es 1-7																		
Not Supported under Any of Categories 1-7	(8)		3 - 2								909							
P.O.S.A.P.	(2)		21.0		10 O 10						7 0 7			of Graduate Students).		s and may 11, 1970).	programme	
	Other University (6)		14 2 16		0 E M						0 0 0			the Counting		d in Master's	year of the	
Remuneration	Teaching Assistantships (5)		9 9 18		14 14 28						909			in the Report on the Counting	of each year.	s are as defined in "Survey of Citizenship of Graduate Students Enrolled in Master's and Programmes at Ontario Universities in 1969-70" (C.P.U.O. Research Division, May 1)	entire academic year of the programme	
irch Grants	Other (4)		000		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						000			(as this term is defined	" December 1st	p of Graduate 69-70"	in relation to an	dicated.
Research Grants	Federal Agencies (3)		48 13 61		5 6 11						000			ts (as this ter	olled: "as at"	of Citizenshi ersities in 19	basis, i.e. in	rt has been in
70	Other (2)		14 11 25		8 9 17						404			year" student	is the Student numbers enrolled:	ed in "Survey contario Univ	annual	fing any suppo
Scholarships and Bursaries	P.0.G.		1 1 2 2		1 6 7						000			e "qualifying		s are as definer and Programmes and	are reported dent is regist	tudents received
			- Master's - Doctoral - Total		- Master's - Doctoral - Total		- Master's - Doctoral - Total		- Master's - Doctoral - Total		- Master's - Doctoral - Total		- Master's - Doctoral - Total	Does not include "qualifying year" studen	Enrolment basis	Discipline areas are as defined in "Survey of Doctoral Degree Programmes at Ontario Universi	Support levels are reported on an for which a student is registered.	The number of @tudents receiving any support has been indicated
		ENGINEERING	Full-time;	LIFE SCIENCES	Full-time:	HEALTH SCIENCES	Full-time:	EDUCATION	Full-time:	BUSINESS	Full-time:	OTHER	Full-time:	Notes: (1) D	(2) E	(3) D	S (4)	(5)



Page 1 (a) of 2

TOTAL

480 112 592

CARLETON UNIVERSITY

SUPPORT OF FULL-TIME GRADUATE STUDENTS 1969-70 ACTUAL GRADUATE ENROLMENT DATA

DISCIPLINE AREA

Full-th Full-ti HUMANITIES Full-ti HUMAN LTIES SOCIAL SCI Full-ti SOCIAL SCI Full-ti PHYS I CAL. S NA THEMA LIC ACCRECATE BREAKDOWN Full-ti

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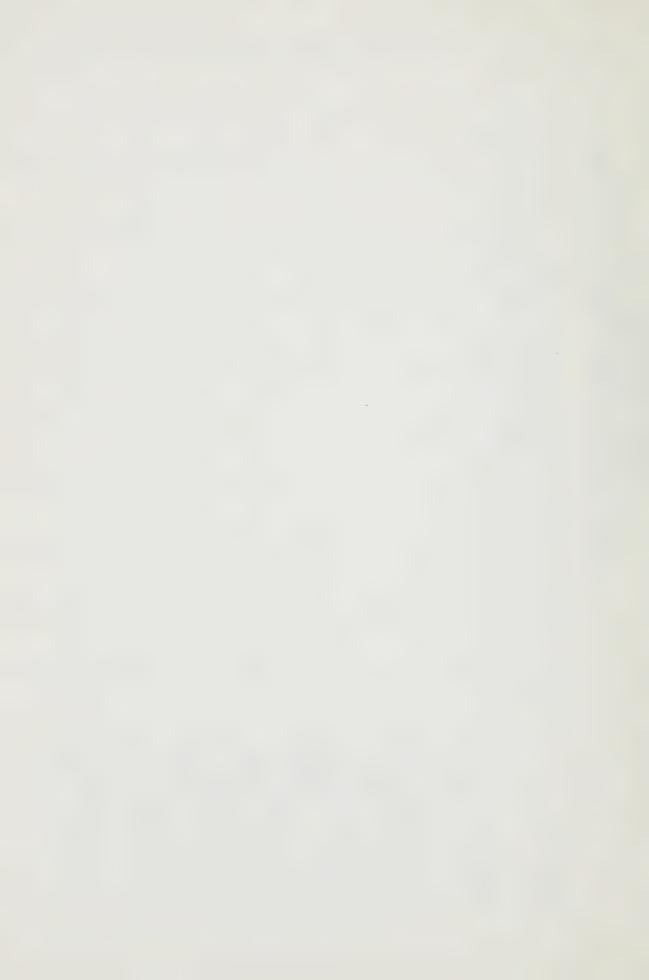
242 37 279

69

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SUPPORT OF FULL-TIME GRADUATE STUDENTS 1969-70 ACTUAL SURVEY OF ANNUAL FINANCIAL RESOURCES FOR THE GRADUATE ENROLMENT DATA CARLETON UNIVERSITY

						21 -							
	TOTAL	50	23	ć	20 38						17 0 17		
	\$5,000+	0		,							000		
OF SUPPORT	\$4,001-5,000	0	2 2 0		0 P B						000		
STUDENTS BY LEVEL OF	\$3,001-4,000	α	111		5 6 11						000		
NUMBER OF STUD	\$2,001-3,000	17	24		6 4 10						202		
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			Full-time: - Master's - Doctoral - Total	LIFE SCIENCES	Full-time: - Master's - Doctoral - Total	HEALTH SCIENCES	Full-time: - Master's - Doctoral - Total	EDUCATION	Full-time: - Master's - Doctoral - Total	BUSINESS	Full-time: - Master's - Doctoral - Total	OTHER	Full-time: - Master's Doctoral - Total

21

Does not include "qualifying year" students (as this term is defined in the Report on the Counting of Graduate Students). Enrolment basis is the Student numbers enrolled: "as at" December 1st of each year.

Discipline areas are as defined in "Survey of Citizenship of Graduate Students Enrolled in Master's and Doctoral Degree Programmes at Ontario Universities in 1969-70 ----" (C.P.U.O. Research Division, May 11, 1970).

Support levels are reported on an annual basis, 1.e. in relation to an entire academic year of the programme 1. Notes:

4.

Total students reported are identical with those reported on Form CUA-70-A. for which a student is registered.



GENERAL AND HONOURS PROGRAMS IN ARTS AND SCIENCE

DIFFERENTIATION BETWEEN GENERAL AND HONOURS PROGRAMS

When the Operating Grants formula was being established, Carleton argued strongly that there should be no differentiation in weights between "honours" and "general" students in Second and Third years. We held as a matter of educational philosophy that, whatever label they carried, students in these years should have equality of opportunity; but no more resources should be allotted to one category than the other; and consequently that there should be no difference in weights. We still hold this view.

In fact, at Carleton there has been practically no difference in treatment, and under our system there is little incentive for a student to opt for honours status in Second or Third years, since he can take just the same courses without this designation. At the same time, we believe we compare very favourably with other universities in the number of good students who want to take a Fourth year and a true honours level kind of degree.

Thus Carleton, because of its policy of equal opportunity in Second and Third years, has lost hundreds of thousands of dollars under the weighting system that has prevailed. We think it highly unfair that recently a special arrangement was made with the University of Toronto for a common weight, basing the calculation of this weight on a particular mix of honours and pass students under the old Toronto system. In effect, the University of Toronto has adopted something close to the philosophy put forward by Carleton when the formula was being established. But it is benefitting from a general weighting for Arts undergraduates that is higher than for Carleton and some other universities. Why should there not be the same common weight for all Second and Third year students in whatever university they study?

There is, of course, a good case for a higher weight for Fourth year where resources available per student must and should be higher.

SINGLE WEIGHT FOR ARTS AND SCIENCE STUDENTS

We have no strong views on the possibility of a single weight for Arts and Science undergraduates, providing the new weight were reasonable. It is obvious that costs are higher in departments carrying on large amounts of laboratory work within the Faculty of Science or in others now receiving extra weighting. It can well be argued that these higher costs should be recognized roughly in the formula. On the other hand, it is plain that with the trend to less rigid undergraduate programs



it is becoming increasingly difficult to differentiate properly between "Arts" and "Science" students. One method would be to make a determination by the majority of the courses taken in any year by a student. A reasonable single weight would be much more simple from an administrative point of view and, in the long run, should provide a reasonable fairness among universities. In any case, there should be a higher weight for Fourth year students. Consideration should be given to lessening the difference between the total weights for Engineering and those for Science, or those for Arts and Science if the two are combined.



ITEM 2

FACTORS AFFECTING LEVELS

OF

UNIVERSITY SUPPORT



TYPES AND SIZES OF CLASSES

DATA SUMMARY FOR CPUO SURVEY

The summary of the data as submitted for the CPUO survey is given in the subsequent table:

CUA-70-H Summary of Class Size Survey Data for 1969 as reported to the Committee of Presidents Frequency Distribution of Class Sections.



CARLETON UNIVERSITY

THE COMMITTEE OF PRESIDENTS FREQUENCY DISTRIBUTION OF CLASS SECTIONS SUMMARY OF CLASS SIZE SURVEY DATA FOR 1969 REPORTED TO

YEARS 1-6 Undergraduate Graduate

Year 7

										-	26	-		-		_		- 11			-		
CONTACT HOURS/WEE	STUDENT																					18.45	
F. T. E. ENROLMENT	(5)																					7683 96	2
STUDENT	HOUKS PER WEEK	2 73170	3/13/.3		2755.5			51031.0			1273.0		0	0.9860.0				27957.5		10001	10904.5	130 065	130,000
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AVERAGE SECTION SIZE (4)	LE	31.60			75.25		79.20			70.08		79 82				4.2.23	7.7		46.58			364.76	
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SECTION	SECTION DIS-TYPE CIPLINE	AREA	PURE		A DDT TED	HUMANITIES		PURE	SCIENCES	APPI TED	SOCIAL	SC LENCES	PURE	SCIENCES	APPLIED BIOLOGICAL	SCIENCES	PURE	PHYSICAL		APPLIED	PHYSICAL		TOTAL

NOTES:

Data agrees with and is based upon CPUO survey requirements as set out in Memorandum dated 14th July, 1970 - re Analysis of section size information. This form has been completed twice, once for years 1-6 undergraduate, and once for year 7-graduate.

Le - Lecture; LA - Laboratory; TU - Tutorials and Seminars.

1. 2. 5.

as most appropriate. For this and other reasons this summary is very much secondary to the provision of the data itself to CPUO. Average Section Size = Total of Course Enrolments + Total Number of Sections.

As per Forms UA3 Submitted December, 1969, distributed according to D.B.S. Discipline Groupings used in the Survey.

IMPORTANT - The class size spectrum used here anticipates prematurely the spectrum which only the basic data itself will indicate



CUA-70-H

CARLETON UNIVERSITY

YEARS 1-6 Undergraduate Graduate

Year 7

THE COMMITTEE OF PRESIDENTS FREQUENCY DISTRIBUTION OF CLASS SECTIONS SUMMARY OF CLASS SIZE SURVEY DATA FOR 1969 REPORTED TO

					- 2	27 -				
TOTAL CONTACT HOURS/WEE	PERSTUDENT									96.6
TOTAL F. T. E. ENROLMENT	FALL TERM (5)									722.3
TOTAL S TUDENT CONTACT	HOURS PER WEEK	531.0		2005.5		113.0		3745.0	801.0	7195.5
	12	5.98		70.74		2.0		9.04	2.77	24.5 3
AVERAGE SECTION SIZE (4)	1			4.50		3.0		3.0		1.05
AVE SEC SIZ	31			35.75		7.4		4.8	11.52	63.07
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	3									
	21									
161-300	3									
16	13									
	25									
81-160	47									
8	E								Ш	
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41-80	4									
4	当				2					2
	22			4			Ш		Ш	7
21-40	3									
	LE								4	4
	22	10		28						38
11-20	5								7	
	LE									7
	DI.	17		23					2	54
4-10	Ŋ								St.	3
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0-3	Y]					2				
	Z /	S	S			I,				
SECTION	SECTION DIS-TYPE CIPLINE AREA	PURE HUMANITIES	APPLIED HUMANITIES	PURE SOCIAL SCIENCES	APPLIED SOCIAL SCIENCES	PURE BIOLOGICAL SCIENCES	APPLIED BIOLOGICAL SCIENCES	PURE PHYSICAL SCIENCES	APPLIED PHYSICAL SCIENCES	TOTAL

Data agrees with and is based upon CPUO survey requirements as set out in Memorandum dated 14th July, 1970 - re Analysis of section size information.

This form has been completed twice, once for years 1-6 undergraduate, and once for year 7-graduate.

Le - Lecture; LA - Laboratory; TV - Tutorials and Seminars. 1.2.5.5.5.

Average Section Size = Total of Course Enrolments + Total Number of Sections.

As per Forms UA3 Submitted December, 1969, distributed according to D.B.S. Discipline Groupings used in the Survey.

The class size spectrum used here anticipates prematurely the spectrum which only the basic data itself will indicate as most appropriate. For this and other reasons this summary is very much secondary to the provision of the data itself to CPUO.



TEACHING, LEARNING AND EFFECTS OF EDUCATIONAL TECHNOLOGY

New approaches to teaching and learning have been the subject of a good deal of thought over the past several years. Teaching and learning innovation must take into account a number of important factors, including the increasing desire of students to work rather more on their own, and the many very large classes resulting from heavy enrolments with the resulting high ratio of students to faculty members. Instructional aids are often employed in the light of these factors and their assistance is not always totally compatible with them.

The traditional use of instructional aids however, has arisen where the professor felt that the use of the devices involved would somehow enhance or improve his teaching. The newer use of teaching aids has lost sight of this, and is being introduced to a great extent to cope with large classes.

Two years ago the Commission on Undergraduate Teaching and Learning in the Faculty of Arts was set up to study the current situation with a view to examining new approaches in teaching and learning. The Commission is now completing its quite exhaustive study and its report is expected in the late fall. The Report of the Commission will represent a lot of Carleton's more recent thinking on teaching and learning.

Our use of television has most often been directed towards the problem of very large classes — usually at the first year level. The Mathematics Department has for several years employed television to teach its 100 level class, but this year it has abandoned its heavy reliance on television to go back to conventional classroom teaching. The Department withdrew from television largely because it was felt, both by students and faculty alike, that it offered inadequate student/faculty contact.

On the other hand, the first year courses in Psychology and Sociology with enrolments of approximately 1300 and 1600 respectively are using television extensively. The two courses are broken into basic groups of 35 to 40 students, in the charge of a trained teaching assistant under the general supervision of a faculty member who is accessible to students in his office. The groups divide their sessions about equally between television and discussion. The television sessions use tapes which are produced at the University. This use of television in the group context should provide some interesting results at the end of the year.

Carleton's experience to date would indicate that if television is to be used it must be used with concern for the student, and must be used well. Student resistance to large impersonal televised lectures where television is a simple substitute for the lecturer may ensure the eventual abandonment of that use. It would seem that if care is put into the television production and it is used in reasonably sized classes, and the supplemented by groups, then the costs are, if anything greater than

Amendment #1 - To Document Entitled "Presentation To The Committee on University Affairs, December 1970."

- (1) Page 15. The figures shown in the column for Humanities (Language and Literature) represent the aggregate figure for that category and the category entitled "Humanities (History, etc.)"
- (2) Page 15. The figures shown in the columns for Social Science (Regional etc.) represent the aggregate for that category and Social Science General.
- (3) Page 16. In the classification Mathematical Sciences, delete MATHEMATICAL and substitute ALL.

they are under the traditional system.

The School of Journalism is having inevitably to employ more television but their involvement would not fall under the general concern for new approaches to teaching and learning.

The Resource Center in the Department of Chemistry provides a good example of the new approaches that are being devised to meet the growing student trend towards working independently. The Center serves the approximately 400 students in Chemistry 100. It is equipped with a computer terminal, a projector, and a selection of publications. It is staffed two full days and three half days a week by faculty members and students are invited to use the Center to discuss problems, to use the facilities, and to become familiar with the computer. The Center replaces a voluntary 'problem session' which has been offered in previous years.

Audio visual facilities when used strictly as aids and less as substitutes become highly effective, if very costly. Television, film, and slides are used quite extensively as aids but are found to work best in relatively small groups.



RESOURCE ALLOCATION - UNIVERSITY OPERATING FUNDS

BUDGET ALLOCATIONS

The budget allocations for major salary and non-salary categories for the years 1969-70 (actual) 1970-71 (estimated) and 1971-72 (projected) is given in Table CUA-70-I, entitled "Statement of the Financing of Operations" which follows.



CARLETON UNIVERSITY

STATEMENT OF THE FINANCING OF OPERATIONS

All gross expenditures of the University other than on Capital Account

LESS: (a) Assisted/Sponsored Research

- (b) Principal and interest payments on capital indebtedness
- (c) Student Aid
- (d) Ancillary enterprises (as per Form J) (Note 1)
- (e) Costs of programs in education, if any (Note 1)

Total exclusions

Remainder - representing operating expenditures eligible for formula and other operating grant support (analysed on page 2)

Sources of Financial Support for Above:

- (a) Basic operating income (weighted enrolment* x unit value)
- (b) Other operating grants
- (c) Balance

Total (equal to Remainder above)

		1
1969-70 Actual	1970-71 Official Budget (7)	1971-72 Projected (6)
(\$000's)	(\$000's)	(\$000's)
26,528	31,302	
1.664	1,800	
2,713	3,091	
211	200	
2,726	3,298	
-	-	
7,314	8,389	
19, 214	22.913	
14,371	17,539	
203	133	
4,640	5,241	
19.214	22.913	

- el: It is not normal university practice to include the surplus or deficit from the operation of ancillary enterprises in the operating results for the University. In accordance with past instruction from the Department of University Affairs, with which we agree, ancillaries are budgetted and operated to produce a break-even situation. Short term surpluses or deficits are carried forward from year to year.
- e 2: The above figures do not include the municipal tax levy of \$25.00 per full-time student. This assessment was \$178,000 for the 1970 calendar year.

For 1970-71, official budget figure of weighted enrolment.



CARLETON UNIVERSITY

STATEMENT OF THE FINANCING OF OPERATIONS

	1969-	70	1970-1 Offic: Budge	lal	1971- Proje	
eighted in accordance with the Operating Grants Formula (1) (i) Projected (official) (ii) Used in official budget of the university (iii) Latest estimate			13, 13,	596		
(iv) Actual	11,	984				
	Total Amount	Per unit of weight- ed Enrol- ment	Total Amount	Per unit of weight- ed Enrol- ment (2)	Total Amount	Per unit of weighted Enrol- ment
	(\$000¹s)		(\$000's)		(\$000's)	
. Total operating expenditures, as per Page 1 (5)	19,214	1,603	22,913	1,685		
Less: (i) All academic salaries (3)	8,518	711	10,805	794		
(ii) Fringe Benefits related to above	633	53	759	56		
Balance, All other operating expenditures	10,063	839	11,349	835		***************************************
Breakdown of all other Operating expenditures: 1. All furniture and equipment	975	81	572	42		
2. <u>Library</u> : - Library Acquisitions	901	75	964	71		
- Salaries and wages of library staff	930	78	1,142	84		
- Fringe benefits related	67	6	78	6		
to above 3. Plant maintenance (4) - Salaries and wages	800	67	1,021	75		
- Fringe benefits related to above	82	7	99	7		
- Other 4. Remainder:	1,562	130	1,842	135		
- Salaries and wages - Fringe benefits related	2,184	182	2,628	193		
to above - Other objects of	183	15	214	16		
expenditure	2,379	198 839	2,789 11,349	206 835		
TOTAL (as above)	10,003	037	11,047	033		

- (2) Basis of calculation: weighted enrolment used in official budget of the darkers.
 (3) Includes all academic administrative appointments.
 (4) Includes all expenses (except furniture and equipment) included under definitions 18 and 22(a) of "Instructions, Definitions and Notes Relating to the Completion of the DBS-CAUBO Report on Financial Statistics of Universities and Colleges for 1969".
- (5) In accordance with past policy, the accounts do not include appropriations or reserves. Revenues and expenditures are recorded on the accrual basis in accordance with generally accepted accounting principles.
- (6) Completion of this column was optional.(7) That Budget which has been adopted by the Board of Governors.



ADEQUACY OF PATTERNS

Academic Salaries

This component is too low and will again be so next year. This is demonstrated by two facts: the Carleton student-faculty ratio is almost 17:1; and the Carleton average full time academic salaries are among the lowest of the Ontario Universities. Honoraria for part time lecturers are also lower than a number of other universities.

Fringe Benefits

There will be pressure to increase this item as a result of a study of retirement plans in this and other universities.

Furniture and Equipment

Equipment buying is too low to keep our laboratories maintained and developing as they should. The situation has been exacerbated by the dropping off of N.R.C. Major Equipment Grants.

Library

Our total acquisitions for this year and last year appear fairly satisfactory. Carleton is having to put a relatively high proportion of resources into the purchase of Library materials to make up for inadequate development of the collection during the sixties when Carleton was "emerging" without the help of "emergent" grants. The Library is still deficient in support for much of the work being done at the University.

Remainder

Recent changes in regulations about capital funds have sharply increased the need for the use of current funds for necessary alterations and renovations. This demand is heavy in a rapidly-growing university where there is a constant need to re-adapt the use of space.

General

Carleton's income is squeezed by the present weighting system in the operating formula. It receives a low amount per f.t.e. student.

ANCILLARY OPERATIONS - SOURCES OF REVENUE AND EXPENDITURES

An outline of sources of revenue and expenditures for ancillary operations for the years 1969-70 (actual), 1970-71 (estimated) and 1971-72 (projected) is given in Table CUA-70-J, entitled "Ancillary Operations 1969-70 (actual)" which follows.



CARLETON UNIVERSITY ANCILLARY OPERATIONS (1) 1969-70 ACTUAL

Parking

Residence Commons

Student

Bookstore

Athletics

1,144

72

199

143

951

Page 1 of 1

NAME OF ANCILLARY ENTERPRISE

OF DIRECT

- Fee or membership revenue.
 Direct charges for goods or services.
- 3. Other

TOTAL DIRECT REVENUE

DIRECT COSTS

1. Costs directly attributable

to the enterprise.

2. Costs shared with other ancillary enterprise(s).

TOTAL DIRECT COSTS

EXCESS (shortfall) of Direct Revenue over Direct Costs INDIRECT (Overhead or Joint) Costs
- as ordinarily budgeted
but excluding transfers
as dealt with below:

EXCESS (shortfall)

(1)

23)

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NET EFFECT OF TRANSFERS "(To)" and "From" "Appropriations" and "Reserves".

REPORTED OR BUDGETED EXCESS OR (SHORTFALL) ON ANCILLARY ENTER-PRISE.

_												
	1971-72 Projected											
	1970-71 Budget	1,666	1,511	88	3,265	3.169		3,169	96	129	(33)	(33)
	1969-70 Actual	1,415	1,274	43	2,732	2.622		2,622	110	104	9	9
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The Net income or deficit from the operations of ancillary enterprises is not included in the operating results of the University. The accumulated income or deficit is carried forward each year as a deferred item on the balance sheet. In the long-run, each ancillary is expected to break even. (2)



ACADEMIC MARKETPLACE

FINDING QUALIFIED FACULTY MEMBERS

We found in general this year that there was a good supply of junior candidates in Humanities subjects. Able, experienced people in some particular fields, however, were still hard to find. For example, we felt a great scarcity of good potential faculty members to work in Canadian Literature, both English and French. Well-trained Canadians are still difficult to find for some fields in the Social Sciences, particularly Sociology, Economics, and Geography. In Science subjects, there were generally a good number of junior candidates available, although there was some difficulty in filling particular positions calling for background in certain areas and experience. In Geology, there was a problem of finding people with the right formation. Over all, the availability of qualified candidates at junior levels in Engineering was good, but still with a shortage in some specific fields. Experienced faculty members are still extremely difficult to locate. In summary, we found the supply of prospective members decidely improved at the first appointment stage, although good candidates were lacking in a number of particular areas. On the other hand, there is still a general shortage of prospects for intermediate or senior positions. With its rapid growth, Carleton cannot develop only with fledgling faculty members, and must seek the requisite balance for the healthy evolution of departments.

SOURCES OF NEW FACULTY APPOINTED

The aggregate totals for new faculty appointed during the period September 15, 1969 to September 15, 1970 are shown in Table CUA-70-K, which is entitled "Full Time Faculty Appointments During Period September 15, 1969 to September 15, 1970".



CARLETON UNIVERSITY

FULL-TIME FACUETY APPOINTMENTS DURING PERIOD SEPTEMBER 15th, 1969 TO SEPTEMBER 15th, 1970

OTHER		. 13 6										
FRANCE		45 25										
O THER COMMONNEAL TH		не н										
UNITED KINGDOM		13 16 19										
UNITED		20 14 17 33										
CANADA		56 46 42 29										
DISCIPLINE AREA	AGGREGATE FIGURES	- Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	BREAKDOWN BY DISCIPLINE AREA	FACULTY ADMINISTRATION	- Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	HUMANITIES	Pure - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of Last Degree	Applied - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	SOCIAL SCIENCE	Pure - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	Applied - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	
TOTAL												

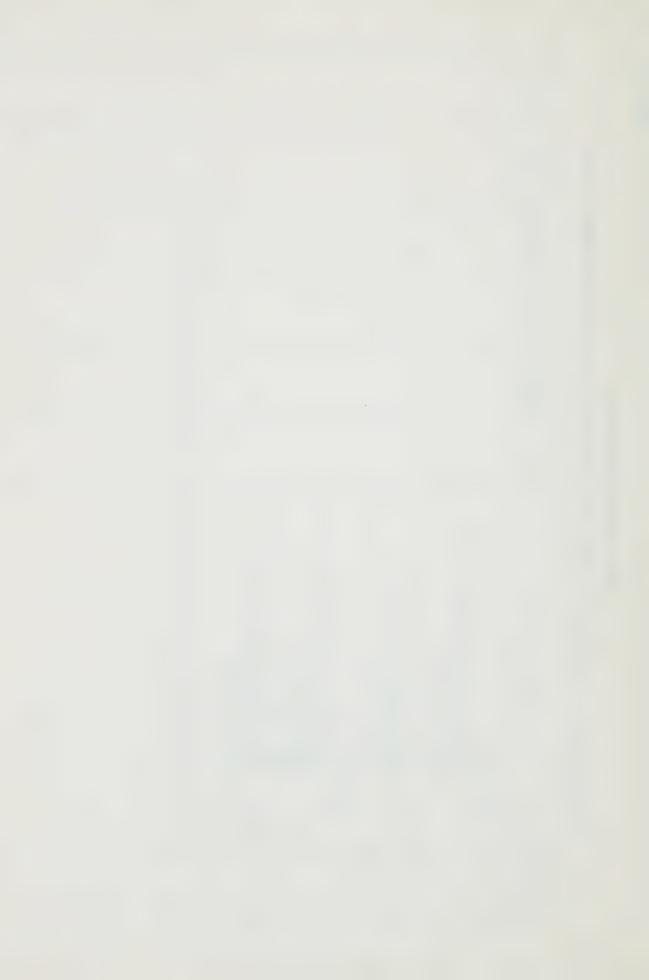


CARLETON UNIVERSITY

FULL-TIME FACULTY APPOINTMENTS DURING PERIOD SEPTEMBER 15th, 1969 TO SEPTEMBER 15th, 1970

OTHER								
FRANCE								
OTHER COMMONWEALTH							Faculty carried out by the	
UNITED							Faculty carrithin such are	
UNITED							of University	
CANADA							ship Analysis	
DISCIPLINE AREA	BIOLOGICAL SCIENCE	Pure - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	Applied - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - County of 1st Degree - Country of last Degree	PHYSICAL SCIENCE	Pure - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	Applied - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	Note: This return was requested in order to update the Citizenship Analysis of University Faculty carried out by C.P.U.O. in early 1970. Please note that discipline areas (and programs included within such areas) remain those of the Dominion Bureau of Statistics.	
TOTAL	-		App			AP.		

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OPERATING AND CAPITAL SUPPORT

POLICY OF MAINTAINING DIFFERENTIATION

Any comment on the policy of maintaining differentiation between operating and capital assistance must be based upon a viewpoint as to how the funds available for assistance to the universities may best be distributed among the universities, and expended by each in such a way as to maximize the benefits to be derived from these funds.

It would appear from past experience, and in theory, that any specific grants whatsoever are undesirable in that they tend to foster a particular kind of expenditure, whether or not that type of expenditure is higher in priority than another kind which does not fall within the restriction.

For example, specific computer grants ensured that a specific amount of the money available in the province for total university support was earmarked for computers. This meant that the total sum available for other uses was reduced. In the individual Institutions it meant that the funds could be secured only if spent on computers, which in turn almost ensured that such an amount would indeed be spent on computers. It also could have established a level of expenditure which might be difficult to reduce later. Folding the computer support grants into the regular unit support gave the Institutions the same total resources, but left to the particular university the tough decisions about how these resources were allocated. Each institutional allocation to computer support under the latter system was made not because there were so many dollars specifically available from the Province for this purpose, but rather in competition with the need for these dollars for salaries, equipment, etc. It would seem indisputable that the present method without this specific support is the more desirable.

It follows that the split of total support available to each Institution into Operating Funds and Capital Funds produces the same effect. How is the real need for a new facility to be measured against a need for additional faculty or equipment when the financing of these things are carried out under two entirely separate sets of regulations? To the extent that it is possible that given the choice, an Institution might prefer to postpone a capital project in favour of some operating need, but is precluded from doing so because of the system of financing, the system probably prevents optimum use of the funds available.



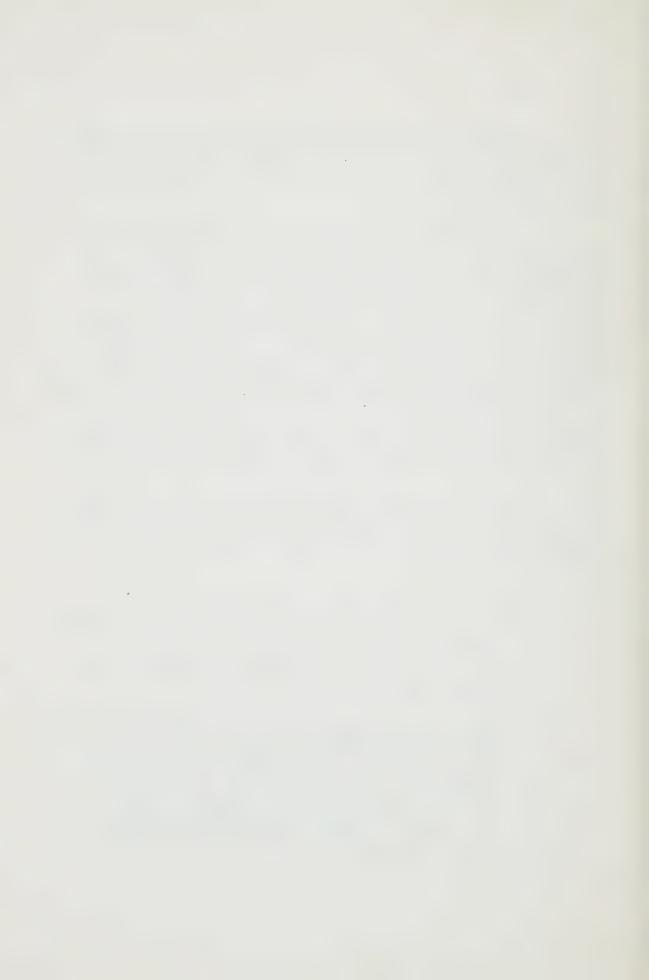
Since needs vary from Institution to Institution and change over time, it seems that the best way to ensure optimum use of the available money is to allow maximum freedom to each Institution in expending whatever support is available to it. It follows that one grant would be better than two.

From an accounting viewpoint, it would seem that there is little to justify the continuance of the long standing practice of differentiating operating and capital assistance. The line between an expenditure for operating purposes and one for capital purposes is very vague except for major expenditure. No definition of a "Capital Expenditure" could be applied in a general way to current practice except possibly that if the expenditure is charged against capital funds, it is a capital expenditure. Similarly an expenditure charged against operating funds is an operating expenditure, even though it may be incurred to acquire an asset of relatively long life and of major value. Unlike commercial practice in industry where the line is clearer, consistency from Institution to Institution is lacking. When one couples these things with the fact that a large percentage of the income in both of these funds comes from the same source, government grants, one is led to conclude that little purpose is now served by the accounting differentiation of these funds.

There are some major problems which would have to be considered carefully before the present method could be changed. These are impressive enough that this could be a matter of balancing the benefits of the change against the practical difficulties which would flow from such a change.

Some of the more obvious difficulties are:

- 1) There is a problem which stems from the fact that capital funds are financed by the issue of debentures.
- Some equitable method of replacing the operating and capital formulae would have to be devised.
- 3) There may be some problems for the province in the fact that capital expenditures fluctuate in such a way that annual surpluses or deficits could occur in a single fund more easily than is now the case with operating funds. In addition it would seem that some of the detailed control of capital expenditures now in effect would be more difficult to maintain with one fund. Since the whole concept is based upon freedom to expend funds without restriction this would have to be accepted by D.U.A.



These are a few of the practical difficulties. While they are of major proportions, further examination of the concept would seem to be desirable.

Should the one grant method be considered for the individual Institutions, it may be necessary for the system as a whole to be financed on a different basis. For example, it may be necessary for government to continue to finance the acquisition of relatively long lived assets through the issue of debentures. It should be possible to devise a reporting system which would make this possible. It would seem that there is no theoretical reason why the financing of the individual university must of necessity be the same as that for the system as a whole.



ITEM 3
FUTURE PLANNING



FIVE YEAR FORECAST

CHANGES IN PROPOSED DEVELOPMENTS

There are no very significant changes in developments over those proposed in the 1968 and 1969 submissions to the Committee on University Affairs. The projected full time enrolment for the university for 1975-76 differs little from that projected last year. The same applies to part time enrolment. The projected summer session enrolment for 1975-76 is up some six hundred over last years figure, in part due to a slight increase expected in the under-graduate component but mainly due to increased registration of graduate students. The rate of growth in enrolment at Carleton during the past two years has produced strains in individual departments and faculties and there might well be a need to limit enrolment in the future in a selective way. It is quite possible also that the total demand for places at Carleton may exceed the projected figures. Should this be so the projected figures would then become target figures which represent in our view a tolerable rate of growth and a fair share for Carleton of the increased enrolment within the province.

The planned additions to the physical plant follow a different order from last year as a result of a reassessment of the anticipated growth of the various components of the university but the order must still be regarded as subject to change since it will be re-examined again when complete data become available on this year's enrolment, student courses and student contact hours per week. The forecast rate of planning and construction is slower than that presented last year and is cause for concern. The slowdown arises partly because of changes in internal procedures involving more opportunity for participation in decision making by students and faculty and in part because of difficulties in sustaining enthusiasm and maintaining planning schedules in the face of uncertainties as to our ability to finance the various projects.

One change in the undergraduate programs might bear mentioning. While combined honours in many combinations of departments has always been possible, the arrangements in Science have been formalized with respect to combined honours in Biology and Chemistry, Biology and Geology and Geology and Physics.

Some changes have been decided upon or are being contemplated at the graduate level. The proposed date of introduction of graduate courses in the School of Architecture has been set back to 1973-74 one year later than proposed last year.



The Psychology Department intends to give serious consideration this year to the desirability of developing an applied program over the next few years. Factors which encourage this action include: the demand for applied psychologists which exceeds the supply, the decelerating rate in the need for academicians, and the increasing concerns with relevancy and social action by both students and faculty.

The planning for the development of new programs previously reported by the School of Social Work has been suspended because of uncertainties around available space.

Engineering expects that work in the computer area at the graduate level will expand and become increasingly of interest to students who do not have engineering backgrounds. This may lead to the need for some designation other than Master of Engineering for students completing a program of studies in this area.

In the Faculty of Science, the Department of Physics intends to examine the possibility of offering a broad program of studies leading to the Master's degree in contrast to the present rather specialized programs. This examination has been stimulated by discussions related to the introduction of a general science degree at the undergraduate level and inquiries from school teachers and others seeking to update their knowledge.

UNDERGRADUATE ENROLMENT FORECAST

The undergraduate enrolment forecast for each year is given in Table CUA-70-L, entitled "Long Term Enrolment Data to 1975-76".

WEIGHTED ENROLMENT FORECASTS

The weighted enrolment forecasts for each year are given in Table CUA-70-N, entitled "Weighted Enrolment for Purposes of the Interim Capital Formula".



CARLETON UNIVERSITY

LONG-TERM ENROLMENT DATA TO 1975-76

1970-71 (Estimate)			1971-72	1972-73	1973-74	1974-75	1975-76
2485	(i)	Full-Time "Freshman Intake" (i.e. 1st Year Undergraduate Degree)	2805	3080	3300	3490	3600
7498	(ii)	Total Full-Time Undergraduate (including diploma and other non-degree and make-up or qualifying year)	8380	9200	9950	10570	11210
649	(111)	Total Graduate (Fall-Term)	732	832	930	1031	1131
8147	(iv)	Total Full-Time Enrolment (ii plus iii)	9112	10032	10880	11601	12341
2191.5	(v)	F.T.E. of Part-Time Enrolment using Formula Conversion Factors (including "Summer School" Graduate Students)	2471.9	2710.0	2925.1	3111.4	3285.5
10338.5	(vi)	F.T.E. Enrolment (iv plus v)	11583.9	12742.0	13805.1	14712.4	15626.5
13681.6	(vii)	Total Basic Income Units Under Formula (i.e. Total Weighted Enrolment)	15360.4	16958.0	18481.2	19822.4	21177.0



CUA-70-N

CARLETON UNIVERSITY

WEIGHTED ENROLMENT FOR PURPOSES OF THE INTERIM CAPITAL FORMULA

SUMMARY

	Weighti	ng Categories:	Capital Weigh	ting Scheme		
	A 1.0	B 1.5	C 2.0	D 3.0	E 4.0	TOTAL WEIGHTED ENROLMENT
1970-71	6297 @ 1.0 = 6297.0	1580 @ 1.5 = 2370.0	33 @ 2.0 = 66.0	150 @ 3.0 = 450.0	87 @ 4.0 = 348.0	9531.0
1971-72	7038 @ 1.0 = 7038.0	1758 @ 1.5 = 2637.0	43 @ 2.0 = 86.0	173 @ 3.0 = 519.0	100 @ 4.0 = 400.0	10680.0
1972-73	7730 @ 1.0 = 7730.0	1940 @ 1.5 = 2910.0	56 @ 2.0 = 112.0	194 @ 3.0 = 582.0	112 @ 4.0 = 448.0	11782.0
1973-74	8336 @ 1.0 = 8336.0	2130 @ 1.5 = 3195.0	69 @ 2.0 = 138.0	220 @ 3.0 = 660.0	125 @ 4.0 = 500.0	12829.0
1974-75	8842 @ 1.0 = 8842	2292 @ 1.5 = 3438.0	80 @ 2.0 = 160.0	247 @ 3.0 = 741.0	140 @ 4.0 = 560.0	13741.0
1975-76	9356 @ 1.0 = 9356	2465 @ 1.5 = 3697.5	94 @ 2.0 = 188.0	274 @ 3.0 = 822.0	152 @ 4.0 = 608.0	14671.5



CAPITAL REQUIREMENTS

CASH FLOWS

The capital requirements are detailed on subsequent tables as follows:

- CUA-70-M-1 Probable Cumulative 5 Year Cash Flow for Formula Capital Projects with Final Approvals.
- CUA-70-M-2 Probable Yearly 5 Year Cash Flow for Formula Capital Projects with Final Approvals prior to March 31, 1969
- CUA-70-M-3 Probable Yearly 5 Year Cash Flow for Non-Formula Capital Projects with Final Approvals.
- CUA-70-M-4 Proposed Cumulative 5 Year Cash Flow for Additional Projects for Interim Capital Formula Entitlement.
- CUA-70-M-5 Probable Yearly 5 Year Cash Flow for Additional Non-Formula Capital Projects.



Page 1 of 1 CUA-70-M-1

CARLETON UNIVERSITY
PROBABLE CUMULATIVE 5 YEAR CASH FLOW FOR FORMULA CAPITAL PROJECTS WITH FINAL APPROVALS
(SUBSEQUENT TO APRIL 1-1969 AND BY MARCH 31-1971)

	REMARKS	U.A.C.P. 3 has been submitted. U.A.C.P. 5 is in preparation so the cash flow for the School of Architecture is shown on this table on the assumption that tenders will be called and Final Approval received before March 31, 1971.	Shown on Table M-4.
	1974-75	2,485	9,181
in \$ 000's	1973-74	2,485	9,181
Assistance	1972-73	2,485	9,181
Cash Flow of Financial Assistance	1971-72	6,696	8,436
Cash Flow	1970-71	4,800	4,954
	1969-70	584	611
S	Total Financial Assistance	2,485	9,181
In \$ 000 *s	Approved Total Expenditure	2,485	9,181
	Project Name	Arts I School of Architecture	Total
	Project No.	C. A. 49	



CUA-70-M-2 Page 1 of 1

CARLETON UNIVERSITY FLOW FOR "FORMULA" CAPITAL PROJECTS WITH FINAL APPROVALS PRIOR TO MARCH 31-1969 PROBABLE YEARLY 5 YEAR CASH

			_		
REMARKS					
8	Subsequent				
1ce in \$ 000	1974-75				
ial Assistar	1973-74				
Balance of Financial Assistance in \$ 000's	1972-73				
Balan	1971-72	100,000			
	Probable Financial Assistance to March 31/71	2,842,500	1,399,500	4,016,800	
In \$ 000's	Total Financial Assistance	2,942,500	1,399,500	4,016,800	
I	Approved Total Expenditure	3,097,276	1,473,095	4,408,767	
	PROJECT NAME (only those projects requiring additional funds)	Food Service Centre	C.J. Mackenzie Ph. III	University Centre	
	PROJECT NO.	C. A. 17	C. A. 29	C. A. 31	



CARLETON UNIVERSITY
PROBABLE YEARLY 5 YEAR CASH FLOW FOR "NON-FORMULA" CAPITAL PROJECTS WITH FINAL APPROVALS
(AS OF MARCH 31-1971)

_									- 4	+9 -								
	REMARKS (list formula project which correlates)) Final Approval) received before) October 1970				_		Partial UACP.8 received	UACP.7, Phase II underway	Final UACP.7 is in preparation	Final UACP.7 in Nov. '70	UACP.1 and 7 submitted	UACP.1 and 7 submitted		
S	Subsequent																	
Balance of Financial Assistance In \$ 000's	1974-75			•														
cial Assist	1973-74																	
nce of Finan	1972-73																	
Bala	1971-72							104,777			13,496	30,638	48,270			16,000		
	Probable Financial Assistance to March 31/7	238,200	276,400	168,500	173,800	62,800	147,817	303,323	116,106		73,765	44,412	168,127	687,880	68,000	265,000		
In \$ 000's	Total Financial Assistance	238,200	276,400	168,500	173,800	62,800	147,817	408,100	116,106		87,261	75,050	216,397	687,880	000,89	281,000		
	Approved Total Expenditure	250.651	290,921	177,332	182,921	66,019	155,597	408,028	122,217		87,261	000,67	227,786	724,084	68,000	281,000		
	PROJECT NAME (only those projects requiring additional funds)	Building Alterations '66	Television Project '67	Tory Building Altns. '68	Building Alterations '67	Steacie Alterations '68	Paterson Hall Altns. '68	Roads 1969	Mackenzie Altns. 1969	Projects which will have been tendered by March 31, 1971 on which Final Approval is expected before March 31, 1971	Architecture Furniture	Quadrangle Renovations	Emergency Power & Alarm Equipment	Sewers and Water 1969	St. Pat's Altns. 1969	Library Levels 1 and 2		
	PROJECT NO.	CA. 37		CA.42	CA.44	CA.46	CA.50	CA.53	CA.54	Projects w tendered b which Fina before Mar	CA.52	CA.55	CA.56	CA.57				



Page 1 of 2

CARLETON UNIVERSITY
PROPOSED CUMULATIVE 5 YEAR CASH FLOW FOR ADDITIONAL PROJECTS
FOR INTERIM CAPITAL FORMULA ENTITLEMENT

(All Amounts in \$ 000's)

						Proba	ble Cumulati	Probable Cumulative Cash Flow	of Financial	of Financial Assistance	*Estimated
REMARKS Th	The latest entitlement values have been shown to provide a valid comparison with the latest construction program.	lues have been s	hown to provide rogram.	a valid	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76*	
Int	Interim Formula Cumulative Cash Flow Entitlement as	Cash Flow Entit		Per NESKYKKKK 1970 October	5,956	12,125	18,310	23,741	29,183	34,441	
	Total of Probable Cumulative Cash Flow Projects with Approvals As of March	Cumulative Cash	Flow for Formula arch 31 - 1971	la	(Table M-1)	8,436	9,181	9,181	9,181	9,181	
Project No.	Project Name	Approval Status	of l	Estimated Total Expenditure	Total Financial Assistance	3,689	9,129	14,560	20,002	25,260	Balance
	Arts I, Phase 2	-		2,789	2,789	1,614	2,789	2,789	2,789	2,789	
*******	***************************************	*****	******			2,075	6,340	11,771	17,213	22,471	Balance
	Maintenance	,	t	966	966	473	966	966	966	966	
****	***************************************	******	*****			1,602	5,344	10,775	16,217	21,475	Balance
	Mac Odrum Addition	1		2,368	2,368	1,371	2,368	2,368	2,368	2,368	
*******	*******************************	*********	******			231	2,976	8,407	13,849	19,107	Balance
	Athletic Addition	i	'	2,572	2,572	129	1,490	2,572	2,572	2,572	
*******	*****	*********	**********			102	1,486	5,835	11,277	16,535	Balance
	Classroom Building	1	1	3,109	3,109	.155	1,800	3,109	3,109	3,109	
******	**************************************	*****	*********			(53)	(314)	2,726	8,168	13,426	Balance
	Bookstore	,	ı	905	905		308	905	905	905	
******	**********	********	*****				(622)	1,821	7,263	12,521	Balance
	Administration	ŧ	ı	2,166	2,166		108	1,254	2,166	2,166	
*****	**********	*******	**********				(730)	567	5,097	10,355	Balance
	Science	1	ı	3,921	3,921		13	395	2,583	3,921	
*****	**********************************	*********	*****				(743)	172	2,514	6,434	Balance
		0	Cumulative Cash Flow carried to	Flow carried	to Page 2	3,742	9,872	14,388	17,488	18,826	

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PROJECTS CUMULATIVE 5 YEAR CASH FLOW FOR ADDITIONAL FOR INTERIM CAPITAL FORMULA ENTITLEMENT CARLETON UNIVERSITY PROPOSED

(All Amounts in \$ 000's)

51 -Probable Cumulative Cash Flow of Financial Assistance | *Estimated Balance Balance Balance Balance Balance Balance Balance Balance Balance 1975-76* (3,380)(3,290)(2,360)930 06 1,113 4,912 (581) 1,779 1,522 3,109 1,803 1,271 532 25,260 18,826 34,441 9,181 6,434 1974-75 (808) (2,423) 1,800 (2,391)29,183 20,002 1,522 1,271 17,488 2,514 992 (2,079)(2,119)32 9,181 04 272 (986) (1,419)(831) 1973-74 14,388 155 433 1,003 14,560 23,741 9,181 (897) 1972-73 9,129 9,872 154 18,310 9,181 12,125 8,436 3,689 3,742 1971-72 (Table M-1) Total Assistance Financial 1971-72 1,790 2,700 1,959 1,271 2,344 5,956 ,522 3,109 Expenditure Interim Formula Cumulative Cash Flow Entitlement as Per MEGSYXIALY 1970
October The latest entitlement values have been shown to provide a valid Estimated 1,790 1,959 2,700 1,271 2,344 1,522 3,109 Total Total of Probable Cumulative Cash Flow for Formula ****************** ***************** *********** ************************************** Date of Last Approval ************** ********************** ********** ********** Projects with Approvals As of March 31 - 1971 Cumulative Cash Flow brought forward from Page 1 1 comparison with the latest construction program ************ Approval Status ı *************** ************ ***************** *********** ********** School of Social Work Science - Engineering Pat's Addition Social Science Project Name Architecture Mathematics Engineering St. ********* ********* ********* ********* ***** ********* Project No. REMARKS



CARLETON UNIVERSITY PROBABLE YEARLY 5 YEAR CASH FLOW FOR ADDITIONAL "NON-FORMULA" CAPITAL PROJECTS

	REMARKS (list formula project which correlates)						-	52 -	School of	Architecture	Arts I	Arts I			Arts I - Phase 2	Arts I	
8,(Subsequent																
ince in \$ 000's	1974-75																
Financial Assistance	1973-74									16,000							530,000
Balance of Finar	1972-73		35,000							20,000		26,000	11,000	10,000	53,000		000,009
Bale	1971-72		55,000	50,000	310,000	77,000	42,000	20,000	51,000	20,000	270,000	30,000	30,000	30,000	350,000	160,000	170,000
	Probable Financial Assistance to March 31/71	54,000	10,000	2,000	15,000	7,000	10,000	75,000									
In \$ 000's	Total Financial Assistance	54,000	100,000	55,000	325,000	81,000	52,000	95,000	51,000	26,000	270,000	26,000	41,000	40,000	403,000	160,000	1,300,000
	Approved Total Expenditure																
	Approved Status														Ο		
	Project Name	St. Pat's Renovations 1970	Transformer Conversion	C.E.F. Laboratories	Tory Building	Steacie Building Labs.	Physics Labs. & Workshop	Landscaping 70 - 71	Chilling Connection	Physics Equipment	Paterson Hall - Arts	Physics/Math. Space	Arts II - Computer Area	Administration	Tunnels & Services 71/72	Landscaping 71/72	St. Pat's Renovations
	Project No.																



CARLETON UNIVERSITY PROBABLE YEARLY 5 YEAR CASH FLOW FOR ADDITIONAL "NON-FORMULA" CAPITAL PROJECTS

	T							53 -		,				2			
	REMARKS (list formula project which correlates)		Sch. of Arch.	Sch. of Arch.			Bookstore Bldg			Athletic Addn.	Athletic Addn.			Arts I, Phase 2		Maintenance	MacOdrum Addn.
8,	Subsequent																
ince in \$ 000's	1974-75												700,000				
Financial Assistance in	1973-74	55,000	77,000			20,000	30,000	84,000	32,000	336,000	160,000	32,000	82,000	13,000	52,000	12,000	26,000
Balance of Finar	1972-73	300,000	70,000	55,000	250,000	34,000								30,000		20,000	100,000
Bala	1971-72	150,000												,			
	Probable Financial Assistance to March 31/71																
In \$ 000 's	Total Financial Assistance	505,000	147,000	55,000	250,000	54,000	30,000	84,000	32,000	336,000	160,000	32,000	782,000	43,000	52,000	32,000	126,000
	Approved Total Expenditure																
	Approved Status									4							
	Project Name	Roads 1972-73	Engineering-Arch. Space	Landscaping 72/73	Tunnels & Services 72/73	Chemistry-Lab. Space	Southam Hall Bookstore	Engineering Lab, Space	Food Service Centre	Tunnels & Services 73-74	Landscaping 73-74	Administration Alter.	St. Pat's Renovations	Loeb Alterations	Southam Hall Renovations	Administration Alter's.	Library Alterations
	Project No.																



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CARLETON UNIVERSITY PROBABLE YEAR CASH FLOW FOR ADDITIONAL "NON-FORMULA" CAPITAL PROJECTS

	REMARKS (list formula project which correlates)	Athletic Addn.	Residences '73				-	54 ~		Residences '75	
80	Subsequent									199,000	
nce in \$ 000	1974-75			245,000	437,000	110,000	84,000	74,000	42,000		
cial Assista	1973-74	52,000	562,000								
Balance of Financial Assistance in \$ 000's	1972-73		80,000								
Bala	1971-72										
	Probable Financial Assistance to March 31/71										
In \$ 000's	Total Financial Assistance	52,000	642,000	245,000	437,000	110,000	84,000	74,000	42,000	199,000	
	Approved Total Expenditure										
	Approved		<u>e</u>	15						9	
	Project Name	Athletic Alterations	Services & Furniture '73	Tunnels & Services-74-75	Roads 74-75	Landscaping 74-75	Chemistry	Engineering	Physics	Services & Furniture '75	
	Project No.										



PROPOSED NEW PROGRAMS

FOR 1971-72

An M.A. program in Journalism is being considered and it is possible that work at the qualifying year level will be introduced in 1971-72. An honours program in Music is being proposed as indicated in the UA4 Form being submitted separately.

FOR 1972-73

Consideration is being given to the development of an M.A. program in Anthropology with particular specialization in Social Anthropology. This will constitute a natural outgrowth of the very high enrolment in courses in that discipline over the past two years.

The second year of the M.A. program in the School of Journalism may be introduced in 1972-73. The program will include both advanced professional work in various media such as television and work in such specialized areas as science writing or financial writing. It will also cover research in the various areas of communication of special media studies, including such topics as history of the media.

The first year of the projected Ph.D. program in History is anticipated for 1972-73. The Department plans to offer three seminars in Canadian History and up to three in other fields.

The first year of a Ph.D. in French is also being considered for 1972-73. The French Department, while aware that four Ph.D. programs in French studies already exist in the Province, feels that adherence to the principle of cooperation will avoid unnecessary duplication in programs that are essentially complementary.



REORGANIZATION OF PROGRAMS AND/OR COURSES

IN 1971-72 AND 1972-73

Rapidly rising enrolment has kept pressure on the University to maintain if not increase opportunities with respect to courses. Generally the need to drop courses and/or programs has not been felt other than the ever present need to keep the curriculum healthy. Thus a number of individual courses have been dropped or replaced but there has been no significant cutting back in course offerings.

Both Commerce and Journalism have, however, dropped three year Pass Programs which they have replaced with Honours Programs.

The report of the Commission on Undergraduate Teaching and Learning in the Faculty of Arts may make recommendations which will result in some substantial reorganization. Specifically the Commission may recommend changes in prescriptions for the Bachelor of Arts



FUTURE PLANNING EFFECTS

CAPITAL FORMULA STANDARDS

Introduction

It is now some eighteen months since the Interim Capital Formula came into effect. This represents about one-half the normal time between commencement of planning for a building and occupancy of that building and is thus almost too short a period for experience with the formula to be meaningful. Nevertheless, there are indications as to the adequacies and inadequacies of the formula which seem worthy of comment.

In retrospect, the decision to introduce an interim formula in 1969 rather than wait for the collection and analysis of data on the physical facilities and their utilization at the provincially-assisted universities of Ontario has been justified. Recognizing that the longer the present formula remains in effect, the more difficult it will be to introduce a new permanent formula without seriously disturbing the planning at some universities, it still seems to have been a wise move. The collection and analysis of the data on Physical Plant and its utilization has proved to be more lengthy and troublesome than first anticipated, yet this data is vital to the development of a permanent formula. In the interim, the present formula has met three important requirements of any capital formula:

- 1) It has provided an objective device for defining the need. This has no doubt been of great assistance to CUA and DUA in dealing with Treasury Board.
- 2) It has provided an objective device for the distribution of available funds among the universities.
- 3) It is of a form which is capable of adjustment or modification in the light of feedback as evidenced by the revisions introduced in the current year.

The introduction of the interim formula gave to the universities for the first time a guide which they could use for physical planning for five years into the future, with at least some indication of what could be expected by way of government support.

Hopefully, a more permanent formula can be developed based upon careful studies of the requirements of the various components of our universities, which will be much better than the present formula but, in the interim, the latter is proving to be a useful instrument. It seems likely that the interim formula will be needed for at least one more year and it is with this in mind as well as the development



of a new formula that the following points are put forward:

1) Space Standard

The standard adopted initially of 130 square feet per full time student would, if adhered to, result in a fluctuating figure for the space unit (space per weight one). This seems to have been recognized and the standard now is usually quoted as 96 net assignable square feet per weighted unit of enrolment. CPUO has stated its view that the 96 square feet figure is not adequate and has nothing new to add at this time. When the use of existing facilities is analyzed as part of the Taylor-Lieberfeld and Heldman study and compared with that of other jurisdictions it should be possible to demonstrate more conclusively the adequacy or inadequacy of the present space unit. It will be necessary, however, to supplement the Taylor-Lieberfeld and Heldman study by a series of user-requirement studies in order to establish finally the nature and amounts of space needed by different groups within universities and thus arrive at a realistic space unit. Such studies would also be helpful in determining the proper weights for various categories of students or courses. These user-requirements studies may reveal that the space unit needs to be different for universities in different size ranges or at different stages of development. Not only emerging universities but also mature universities heavily engaged in complex research programs may require space on a scale greater than the average provision under the formula.

2) Cost Unit

It seems to have been agreed that \$55 per net assignable square foot is not adequate to build and equip buildings of the same standards as the Ontario universities have built heretofore. Statements by the chairman of CUA and officials of DUA have made it clear that the decision not to raise the cost allowance to allow for rising prices is the result of a policy to bring about some reduction in the design quality of university facilities. Such a policy is presumably based upon judgments concerning the cost of university facilities relative to other facilities serving similar functions, capital costs versus maintenance and upkeep costs, useful life of buildings and the like. It would be helpful to have data relevant to these matters to study and analysis in order to assess the reasonableness of this policy. The fact that a particular university has in the past or succeeds in the future in building within the \$55 allowance does not of itself prove that this figure is realistic or sensible. While no escalation has been allowed for in the interim formula to date, it is almost a certainty that building costs will rise and it is extremely difficult to plan some three to five years into the future without knowing how long the \$55 figure is to remain in effect.



3) Weighting - General

The Interim Formula requires the identification of the program in which students are enrolled (Arts, Science, Pass, Honours, etc.) and the level to which they have progressed (first year, second year and beyond, Masters, etc.) in order to assign weights. Since programs with the same title differ significantly from one university to another, this raises concerns over the equity of the weighting for particular universities. The University of Toronto, for example, made a study of the space generated by the formula for its faculties and compared the resulting distribution with what was actually assigned. The study concluded that the weights of the Interim Formula were inadequate to meet the situation then existing at Toronto*. A number of universities feel that the weighting for science students is too low relative to that for students in other faculties. User requirement studies referred to earlier could be of use in establishing more appropriate weights but it may be that a formula based on different input data would produce a more equitable method. If, for example, student courses or subject students differentiated by subject (Biology, Classics, History, Physics, etc.) and by level were used as input data, the degree program in which a student is enrolled would become irrelevant. It may well be that, say, second year Physics courses are much more comparable from one university to another than, say, General Arts degree programs. The choice of input data is most important in any consideration of a permanent formula and further study seems indicated. A space-by-function type of formula such as that suggested in a recent CPUO document** needs to be examined carefully as one possible solution.

4) Weighting - Third-Semester Students

The latest version of the Interim Formula recognizes the need for additional space to accommodate third-term students. It allows 24 square feet for one-half of the weighted enrolment in the third term. This is a most welcome change in the formula.

In separate submissions to DUA, the University of Waterloo (July 29, 1969) and the University of Guelph (May 4, 1970), presented their views on the appropriate weighting for cooperative students in the third semester. Both universities felt that additional space for classrooms and teaching laboratories was not needed for third-term students, and Guelph included also library space, but that other space needs did rise with third-term enrolment. A rough calculation indicates that the present

- * Figure 7 Development of the Interim Capital Formula and the Application to the University of Toronto
- ** I. W. Thompson: Guidelines for Facilities Planning and a Capital Formula, August 1970



allowance under the Interim Formula is just over one-third of what the two universities most directly concerned felt was needed.

Further study is required to establish more precisely the additional needs resulting from third-semester students. The recent inclusion of an entitlement for these students is a significant first step which should now be followed up.

5) Weighting - Part Time Students

Another very worthwhile start has been made in the latest revision to the Interim Formula in providing entitlement for part time students. The formula now provides 24 square feet per student for the full time equivalent of part time weighted enrolment.

A number of universities have made representations to CUA or DUA on this subject, either orally or in writing (e.g., York submission of April 3, 1969, to the Chairman, CUA). There is a considerable spread in the weightings recommended but very roughly the allowance under the Interim Formula is of the order of one-third of the amount felt to be needed by the universities concerned.

Once again, further and more detailed studies are indicated but it is probably not possible to isolate preceisely the additional space requirements arising out of part time students, and in the final analysis some element of judgement will be required. In developing the more permanent formula, consideration should be given to an input base which eliminates the need to distinguish between full time and part time students.

6) Emerging Status

The Interim Formula now recognizes the special needs of those universities which have not yet become fully developed and hence are not able to utilize their facilities as effectively as the established institutions. The adequacy of this allowance is difficult to assess in any general way. Its adequacy for a particular institution will be very much a function of the nature of that institution, the manner in which it has planned to construct its campus and the degree to which its plans have been completed. This is a matter in which submissions from the universities concerned and a study of space by function related to size are likely to provide the best bases for judgment.

7) Age, Efficiency, Renovation, and Renewal

The Interim Formula provides an inventory discount of thirty per cent for space in buildings forty years old or more. This is a



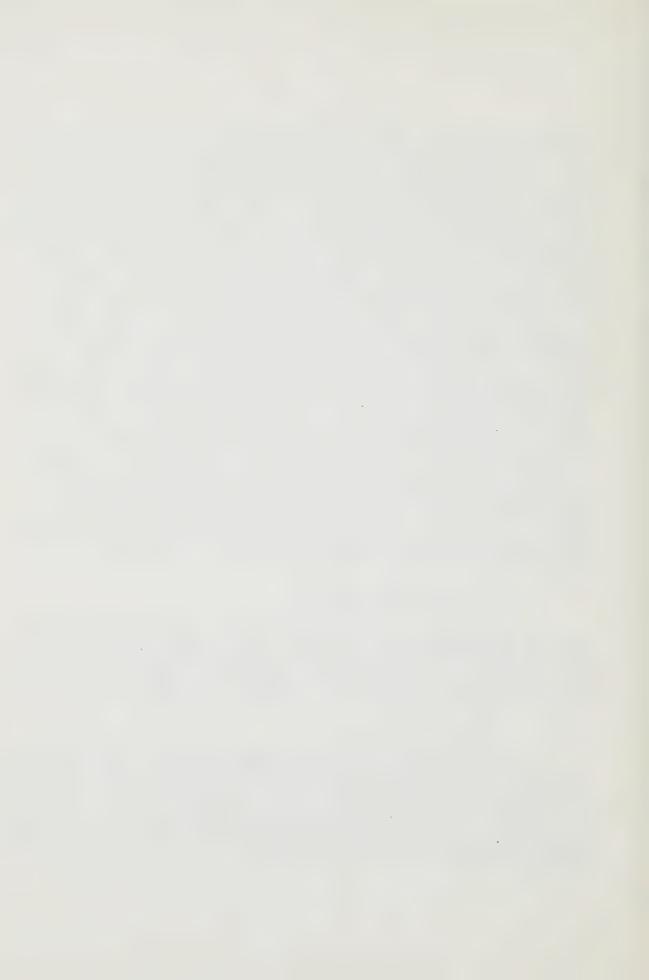
worthwhile beginning to the solution of a very complex problem. Physical facilities tend to become less efficient because of age, but at varying rates for different types of buildings, or because of change to new uses not originally anticipated, or because of bad design or planning, or because of remoteness from the centre of activity on a campus. There are likely many buildings at Ontario universities which are no more than ten years old but which when judged by new standards compatible with the interim formula are now functionally inefficient. Any building, however well designed, will require renovation periodically and there will be instances where it makes good sense to demolish and replace existing buildings. The renovation or replacement of old buildings at mature universities are problems not fully met by the interim formula. In the replacement of an old building at a mature institution no provision is made under the formula for alternative accommodation during construction or for the difficulties which may be encountered in replacing, say, a science building, at the average cost of \$55 per N.A.S.F., without the opportunity of averaging the high costs of this type of building against the lower costs of less complex facilities. It should be possible to structure a formula so that universities have the funds needed either to keep a building up to reasonably modern standards almost indefinitely, or alternatively by some combination of inventory discounts and accumulated renewal allowances to opt for demolition and replacement when a building has gone beyond its useful life. A completely satisfactory answer to this problem will not be found easily or quickly, but the necessary studies should be instituted so that progress can be made in this area. Adequate provision for renovation and replacement might, as a side effect decrease the pressure on universities to grow in size and complexity in order to retain some degree of flexibility.

8) Regional Cost Disparities

The Interim Formula does not yet make any allowance for higher costs in certain areas of the Province. It is recognized that this is not a simple problem but techniques are available for determining regional cost differentials. CPUO understands that DUA is looking into this, commends this action, and awaits the outcome with interest.

9) Lead Financing

There is general concern that the moneys which universities have been allocated for approved projects do not begin to flow sufficiently in advance of the scheduled date of completion. In most cases the amounts of money required are relatively small and are needed to cover initial site investigation work, preliminary design work, and the like. A provision of some moneys in advance of that now allowed seems necessary and we would suggest that 75 per cent of the consultants' fees for the project would be reasonable.



10) Master Planning

At present costs associated with master planning as well as many other costs are expected to be covered by the 3 per cent contingency allowance. Most universities are finding it next to impossible to do this. It may be that master planning costs cannot be fitted into a formula approach but it seems worth considering as this on-going process is vital to the rational development of an institution and it would be most unwise to force universities to skimp in this area.

11) Project-by-Project Approvals and Timing

One of the advantages of a formula approach is that it gives universities more freedom to plan and construct facilities, within the limit set by the formula, with a minimum of interference from outside agencies. This advantage can be more theoretical than real, however, if approval of individual projects is significantly delayed. Some of the delays experienced recently may have arisen in part because the system is in a state of transition — an almost perpetual state perhaps—and in part because of a lack of understanding on the side of the universities as to the preceise conditions governing approval. This would seem to be a matter which requires further attention and clarification.

12) Dining Facilities and Other Common Space

Universities which, for geographical or other reasons, must provide residence accommodations out of proportion to the ordinary must also provide dining facilities to serve these residences. Under present rules dining facilities and residence common rooms are considered part of the allocation inventory. Beyond this, further consideration should be given to the whole question of which types of space should properly be included in the allocation inventory.

Conclusion.

The Interim Formula has been and is a useful and effective device in the present transitional situation. It will be necessary to continue to use it for an additional year or two since much of the data required for testing possible new formulae is not available, or at least not available in corrected and readily accessible form, and many additional studies must be concluded before a more permanent formula seems likely. It would be unwise to prejudice the achievement of a really successful permanent formula by being unduly hasty. Because of the need to continue with the Interim Formula, we would emphasize again the requirement for an escalation factor in the unit cost allowance. The \$55 figure based on 1968 costs is now really only \$44.12 as of July 1970. We are asked to plan to 1975 by which time it will be worth only \$34.26 in 1968 dollars, if the recent trends in prices continue.



The universities must have some guide as to the escalation of the cost allowance if they are to plan sensibly.

The foregoing comments have been offered in the hope that they will suggest not only desirable changes in the Interim Formula but also factors to be considered in the development of a permanent capital formula for the provincially-assisted universities of Ontario.

SECONDARY SCHOOL PATTERNS

Changing Secondary School patterns seem to have had less effect in the Faculty of Arts than they have in the Faculties of Science and Engineering. The Faculty of Arts notes that students coming from High School tend, more and more, to have had less specialized education than in the past. It is fair to say, however, that this trend has not created any major problems.

The Faculty of Science finds it difficult under present arrangements to design courses that will logically follow the work done in High Schools. It is felt that until much closer liason can be established between the teaching departments of the different High Schools sending students to Carleton, and the members of the comparable departments of the University, about the content and approach followed in the upper years of High School the problems created by changing patterns will continue to inhibit a smooth curricular transition.

Finally the Faculty of Engineering reports that changing Secondary School patterns are resulting in a situation where fewer students may be qualified to enter engineering programs as they are currently constituted, while at the same time a pattern of transfers from Community Colletes and other programs appears to be developing. These factors together will make it necessary for the Faculty of Engineering to design a more flexible entry situation.

INTAKE FROM OTHER THAN SECONDARY SCHOOLS

Out of approximately 2600 new admissions this year, 350 were transfer students from other universities, the largest single category going into Second year Arts. Approximately 80 students were admitted as Mature Matriculants, the majority enrolling in First Year Arts. Those who became full time students after taking courses at Carleton as part time students numbered 40 to 50. These students largely entered Second year Arts, the first year being completed while being part time students. Other post secondary institutions such as CAATs and CEGEPs supplied approximately 45 students, mainly to First and Second years.



CHANGING STUDENT PREFERENCE

It is dangerous to make major changes in long-range planning because of apparent immediate changes in student preference that may turn out to be shortlived. There are, however, some current trends that have at least some significance for the future. At Carleton in the last two years, we have noted a strong proportionate rise in Arts enrolments. Science has continued to increase but at a very much slower rate.

Within the Faculty of Arts there has been a major shift of interest to the Social Sciences. Growth in the Humanities has continued but at a much lower rate than the surprising increases in Sociology, Anthropology, Political Science, Economics, Psychology, and Geography. There are indications that this year rate of shift has lessened. An interesting phenomenon this year and last year, probably partly due to the new First year free-choice policy, has been sharply rising enrolments in Accounting and Public Law courses. During the two previous years, Engineering enrolment rose modestly, but this year the total has increased by fifteen per cent.

CHANGING JOB OPPORTUNITIES

Changing patterns of job opportunities are at present creating a lot of uncertainty both for the university and for the students. There seems to be inadequate information generally as to precisely what the patterns are, and how lasting what patterns can be discerned are going to be.

It is clear that patterns as they are perceived by students are having some effect on enrolments specifically, for example, in the lessening interest in science.

Large numbers of students seem to come to university without direct concern for patterns in job opportunities but rather with a concern for general education or for more specialized studies which do not directly relate to job opportunities. These figures make it even more difficult for the university to see ways to adapt planning to job opportunities for changes in student preference may be motivated by considerations unrelated to the labour market.

If it were possible for Governments and other public agencies to make better estimates of changing job opportunities then students might be able to make their academic choices with greater certainty and universities could plan accordingly.



STUDENT ASSISTANCE AND TOTAL RESOURCES AVAILABLE

RELATIVE PRIORITIES

The time has come for a thorough-going evaluation of the Ontario Student Award Programme as the main instrument of a policy to establish equality of educational opportunity. There is some evidence that the existing programme is regressive in that the poor are taxed to help educate the children from better off families, particularly with grants or non-repayable aid. Until more evidence is available on who gets what, non-repayable aid should be kept at its present per-student capita level for next year. If the demand for non-repayable aid from Provincial sources proves to be too great for present financial restraints and reported high levels of student summer unemployment then some principle of selectivity must operate and that would mean greater subsidies to children of lower income groups than to those with higher incomes. This would probably mean more for CAAT students than university students. Since the real problem of inequality of educational opportunity begins early in high school years any amount of aid to Grade 13 students who are a class biased group is bound to have a regressive element built in. It is necessary to publicize the student award programme more in the schools and to make it more genuinely a subsidy to the lower income groups.

The pattern of student assistance that finally emerges can come only after continued debate over and examination of new proposals such as the educational opportunity bank. At the moment too many people in the university community have serious reservations about the proposal in the Cock-Stager Report to be able to endorse it. However there are good grounds for re-examining the relative consumption and investment components in post-secondary education and the relative burden of cost that should be born by the individual and by the public. There are no easy answers. No doubt the Commission on Post-Secondary Education will be making recommendations in this area. We might also look forward to new federal government initiatives as part of the revisions of the federal provincial fiscal arrangements.

PRIVATE VS PUBLIC SOURCES OF SUPPORT

Under current patterns, it is much easier for a student with means to have a university education than for one with little or no financial resources. Our hope is that any future developments will have the effect of improving the equality of opportunity. We believe that there should be no development in the future pattern that would tend to further handicap students with slender financial backing. On



the contrary, we believe that any new scheme should further assist such students. There may be a case for giving special aid to less well off students in a lower range of demonstrated merit than students with better financial resources.

We think that any limitation of total resources for higher education should be attained by agreed limitations on enrolments and more rigorous selection of students, and not by any financial pressures or differentiations.



STUDENT HOUSING

REQUIREMENTS DURING NEXT FIVE YEARS

Projections of the demand for residence accommodation on the Rideau River Campus have been made a number of times in the past, most recently in June 1967 and October 1968. These projections underestimated the demand for places in residences, mainly due to a more rapid rise in enrolment than was projected at the times the forecasts were made, but in part because of other factors more difficult to assess.

In October 1969 a new projection was made, including the St. Patrick's Campus as well as the Rideau River Campus, and using the enrolment forecast in the document Goals and Requirements to 1975 - October 1969 Revisions. The requirement for on-campus residence accommodation is shown in the Table I which follows. Table II compares existing and projected accommodation with demand. The projected accommodation in Table III indicates one way of meeting the demand and is subject to further study.

TABLE I

PROJECTED DEMAND FOR RESIDENCE ACCOMMODATION

		Students Commutin			Estimated Demand for Residence Places				
Year (Factor)	Enrol- ment	Total (0.35)	Men (0.66)	Women (0.33)	Men (0.50)	Women (0.75)	Total		
69-70 70-71 71-72 72-73 73-74 74-75 75-76	7139 8150 9005 9815 10760 11540 12330	2500 2850 3150 3450 3750 4050 4300	1660 1900 2100 2300 2500 2700 2860	840 950 1050 1150 1250 1350 1440	830 950 1050 1150 1250 1350 1430	630 710 790 860 940 1010 1070	1460 1660 1840 2010 2190 2360 2500		



TABLE II

COMPARISON OF DEMAND AND AVAILABLE ACCOMMODATION

Year	Required	Available	+
69-70	1460	1386	- 74
70-71	1660	1386	-274
71-72	1840	1386	-454
72-73	2010	1386	-624
73-74	2190	2236	+ 46
74-75	2360	2236	-124
75-76	2500	2536	. + 36

TABLE III

Existing Residences		Projected Residences
Glengarry (Men) Grenville (Women) Lanark (Women) Renfrew (Coed) Russell (Women) St. Pat's (Men) St. Pat's (Women)	- 634 - 181 - 175 - 147 - 179 - 48 - 22 1386	St. Pat's (73-74) - 250 R. River (73-74) - 600 R. River (75-76) - 300

METHOD OF DETERMINING NEED

The method used in projecting demand for on-campus residence accommodation has been empirical. Factors giving the fraction of out-of-town students in the full-time student body, the relative numbers of men and women, and the fractions of out-of-town men and women wanting residence accommodation were originally based on experience and assumptions. Since Carleton's first residence opened in 1964, the factors have been re-examined and modified on the basis of the most recent findings. For example, the fractions 0.50 and 0.75 used to project the numbers of men and women wanting residence accommodation were obtained by adding to the numbers actually in residence in October 1969, one half of the numbers on active waiting lists for residence places before dividing by the numbers of out-of-town men and women.



While this method may seem less convincing than more sophisticated analyses based on broader studies of housing in the community we believe it is a valid procedure. The factors which must be considered in assessing the need for on-campus places are many and the relative weighting to be assigned to each difficult to determine. The method above assumes that even in today's affluent society the numbers of students prepared to put down a twenty-five dollar deposit (fifty dollars at St. Patrick's) which is not refundable if they are offered a place and refuse it, is directly related to the real need for residence accommodation.

This year Carleton has 758 men and 630 women students in residence for a total of 1388. In addition, 679 men and 398 women or 1077 altogether are on the active waiting list. Thus, using the method described above, the estimated need for residence beds is $1388 + \frac{1077}{2}$

= 1927 - considerably higher than the figure of 1660 for both campuses shown in the table. This indicates that the estimates in the table might well be raised by 16 per cent or so but we are reluctant to do this for two reasons. Firstly, because in making projections for the numbers of residence places required it is wise to be conservative. The entire capital and operating costs of the residences must be born by the students and vacant rooms in any significant number would have serious financial repercussions. Secondly, we have underway the housing study referred to below and we would prefer to have the results available before revising our earlier projection.

On-campus accommodation is only part of the picture since many students prefer to live off campus in a variety of kinds of living arrangements. Carleton has for years canvassed the City to produce and maintain lists of available off-campus places. It is not easy however, to make quantitative forecasts as to the need and likely availability of such accommodation on the basis of information presently in our files. Carleton's lists, together with those of the YM/YWCA, have been used by students of other post-secondary institutions in Ottawa and the institutional affiliation of the students occupying such places has not been recorded. No rating or assessment has been made of the suitability of listed accommodation for university students nor of the convenience for students attending Carleton.

It has been recognized for some time that a thorough study of the off-campus housing situation is needed and that the problem is only partly a Carleton problem. In August Carleton commissioned a firm of consultants to carry out such a study and has actively sought the coperation and support of the other institutions affected. In the past, it has been assumed that the demand for on-campus accommodation is a reflection of the need for such accommodation and planning has been on that basis. When the consultants' report is completed, it should be



possible to plan on the basis of a more complete knowledge of what is now available and likely to be available in the future by way of offcampus housing.

EFFECTS ON DEVELOPMENT IF FUNDS ARE NOT AVAILABLE

The projects indicated in the earlier table would add 1150 student places to the on-campus accommodation at Carleton by 1975. If these places are not provided and if suitable alternatives are not available off-campus, presumably some or all of the 1150 students who would otherwise have enrolled at Carleton will not do so, thus slowing Carleton's rate of growth and the need for non-residential facilities. In the extreme, Carleton's enrolment might be reduced by about 91/2 per cent in 1975-76, and the proportion of students in residence would drop from just over 20 per cent to just over 12 per cent of the fulltime student body. One could study and perhaps refine the effect in terms of numbers of students but this is probably the least important effect. More important is the question of what the absence of places at Carleton will mean to those students who might otherwise have been accommodated. Of interest also is the question of whether a substantial reduction in the percentage of students in residence in any way decreases the quality or effectiveness of the educational experience for the student body as a whole.

The first question is primarily one for the provincial system or for a system-wide study. The second question is one which could be developed at length but the arguments pro and con are likely familiar enough that they can be taken as read.



ITEM 4

OTHER MATTERS



OTHER MATTERS

MISSION ORIENTED RESEARCH

Little research work is presently in progress which is not being supported by any of the large granting agencies. The chief "mission oriented research" that is in progress is to be found in the Science Faculty and in Division II of the Faculty of Arts. Although members of the Faculty of Engineering have undertaken such research in the past and will no doubt do so in the future, at present they are not involved with this type of work.

In the Science Faculty the Department of Chemistry has become more involved in such research over the past eighteen months, and projects are presently underway for the Canadian Patent and Development Corporation, The Inland Waters Division of the Department of Energy, Mines and Resources, and DuPont Company. Several other faculty members are negotiating contracts with the Canadian chemical industry and Government departments. The Physics Department has one project which might be categorized as mission oriented research. It involves radiography, the uses of external gamma rays for density measurement and for imaging of internal structures in medical diagnosis.

There seems to be an increasing amount of mission oriented research being done in the Social Sciences. By way of examples to the nature of this research members of the Department of Psychology are carrying out studies of "Minimal Brain Damage" in cooperation with the Department of Pediatrics of the Ottawa Civic Hospital, and work on the "Early Education of Disadvantaged Children" in cooperation with the Fleck Child Centre and Protestant Children's Village. In the School of Public Administration three members of faculty are carrying out a study on "Objectives in Training Public Service Carrying out a study on "Objectives in Training Public Service Training Public Service Managers for the Public Service Commission". Mission oriented research in Sociology is being done on a variety of topics, including "national policies and Highly Qualified Manpower in Canada", "occupational aspirations of Arctic native peoples" and "effects of community structure on family structure".



POLICY ON THE OBLIGATIONS OF FACULTY MEMBERS

At Carleton the obligations of faculty members are not explicit, but are part of an implicit understanding. It is expected that individual faculty members will teach and assist students to learn in other ways, thus being reasonably available to their students; that they will continue to develop their own knowledge and their mastery of certain fields; that, as appropriate, they will add to knowledge and to the organization of knowledge through research and writing; that they will take due part in administrative and decision—making activities. We do not have rigid regulations or timing rules for the activities of faculty members. We believe that most faculty members work on the average more hours per month than most people in government and business.



